

TRITON Effect Parameter Structure
(Jun.28.'01)

Version 1.1

01: St. Amp Simulation

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Amplifier Type	00~02	SS~6L6	00
1		Wet/Dry	00~64	Dry~Wet	01
2		Wet/Dry: Src	00~1F	Off~Tempo(*1)	02
3		Wet/Dry: Amt	9C~64	-100~+100	03

02: Stereo Compressor

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Envelope Select	00~01	L/R Mix~L/R individually	00
1		Sensitivity	01~64	1~100	01
2		Attack	01~64	1~100	02
3		EQ Trim	00~64	0~100	03
4		Pre LEQ Gain [dB]	E2~1E	-15.0~+15.0dB	04
5		Pre HEQ Gain [dB]	E2~1E	-15.0~+15.0dB	05
6		Output Level	00~64	0~100	06
7		Output Level: Src	00~1F	Off~Tempo(*1)	07
8		Output Level: Amt	9C~64	-100~+100	08
9		Wet/Dry	00~64	Dry~Wet	09
10		Wet/Dry: Src	00~1F	Off~Tempo(*1)	10
11		Wet/Dry: Amt	9C~64	-100~+100	11

03: Stereo Limiter

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	3	Trigger Monitor	00~01	Off~On	09
	2	Side PEQ insert	00~01	Off~On	08
	1~0	Envelope Select	00~03	L/R Mix~L/R individually	00
1		Ratio	00~83	1.0:1~inf:1	01
2		Threshold [dB]	D8~00	-40~0dB	02
3		Attack	01~64	1~100	03
4		Release	01~64	1~100	04
5		Gain Adjust [dB]	D9~18	-inf~+24dB	05
6		Gain Adjust: Src	00~1F	Off~Tempo(*1)	06
7		Gain Adjust: Amt	C1~3F	-63~+63	07
8		Side PEQ Cutoff [Hz]	01~C8	20~12.00kHz	10
9		Q	00~5F	0.5~10.0	11
10		Gain [dB]	DC~24	-18.0~+18.0dB	12
11		Wet/Dry	00~64	Dry~Wet	13
12		Wet/Dry: Src	00~1F	Off~Tempo(*1)	14
13		Wet/Dry: Amt	9C~64	-100~+100	15

04: Multiband Limiter

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Ratio	00~83	1.0:1~inf:1	00
1		Threshold [dB]	D8~00	-40~0dB	01
2		Attack	01~64	1~100	02
3		Release	01~64	1~100	03
4		Low Offset [dB]	D8~00	-40~0dB	04
5		Mid Offset [dB]	D8~00	-40~0dB	05
6		High Offset [dB]	D8~00	-40~0dB	06
7		Gain Adjust [dB]	F0~18	-inf~+24dB	07
8		Gain Adjust: Src	00~1F	Off~Tempo(*1)	08
9		Gain Adjust: Amt	C1~3F	-63~+63	09
10		Wet/Dry	00~64	Dry~Wet	10
11		Wet/Dry: Src	00~1F	Off~Tempo(*1)	11
12		Wet/Dry: Amt	9C~64	-100~+100	12

05: Stereo Gate

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Envelope Select	00~03	D-mod~L/R individually	00
1		Envelope Select: Src	00~04	Off~Gate2+Dmpr(*2)	01
2		Polarity	00~01	+-	02
3		Threshold	00~64	0~100	03
4		Attack	01~64	1~100	04
5		Release	01~64	1~100	05
6		Delay Time [msec]	00~64	0~100	06
7		Wet/Dry	00~64	Dry~Wet	07
8		Wet/Dry: Src	00~1F	Off~Tempo(*1)	08
9		Wet/Dry: Amt	9C~64	-100~+100	09

06: OD/Hi.Gain Wah

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Mid1 Cutoff[Hz]	01~3F	300~10kHz	13
	1~0	Low Cutoff: Gain [dB]	EE~12	-18.0~+18.0dB	12
1	7~4				
	3~0	Low Cutoff[Hz]	00~31	20~1.00kHz	11
2	7~6				
	5~0	Output Level	00~32	0~50	08
3	7				
	4~1	Pre Lowcut	00~0A	0~10	07
	0	Wah.Sw	00~01	Off~On	02
4	7~1	Wet/Dry	00~64	Dry~Wet	21
	0	Speaker Simulation	00~01	Off~On	20
5	7~2	Mid2: Q	00~3C	0.5~10.0	17
	1~0	Mid2 Cutoff[Hz]	00~37	500~20.00kHz	16
6	7~4				
	3~0	Mid1: Gain [dB]	EE~12	-18.0~+18.0dB	15
7	7~6				
	5~0	Mid1: Q	00~3C	0.5~10.0	14
8	7~3	Wet/Dry: Src	00~19	Off~Tempo(*1)	22
	2~0	Mid2: Gain [dB]	EE~12	-18.0~+18.0dB	18
9	7~5				
	4~0	Output Level: Src	00~1F	Off~Tempo(*1)	09
10	7~3	Wah Sweep Range	F6~0A	-10~+10	03
	2~0	Wah Sweep Src	00~1F	Off~Tempo(*1)	04
11	7~6				
	5~1	Wah: Src	00~1F	Off~Tempo(*1)	01
	0	Wah	00~01	Off~On	00
12	6~1	Direct Mix	00~32	0~50	19
	0	Drive Mode	00~01	Overdrive~Hi-Gain	05
13		Drive	01~64	1~100	06
14		Output Level: Amt	CE~32	-50~+50	10
15		Wet/Dry: Amt	9C~64	-100~+100	23

07: St. Parametric 4EQ

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~1	Band1: Gain [dB]	DC~24	-18.0~+18.0dB	07
	0	Band1: Q	00~5F	0.5~10.0	06
1	7~2				
	1~0	Band2 Dynamic Gain Amt [dB]	EE~12	-18.0~+18.0dB	04
2	7~4				
	3~0	Band2 Dynamic Gain Src	00~1F	Off~Tempo(*1)	03
3	7				
	6~0	Trim	00~64	0~100	00
4	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	18
	2~0	Band3 Cutoff[Hz]	01~3F	300~10kHz	11
5	7~4				
	3~0	Band2: Gain [dB]	EE~12	-18.0~+18.0dB	10
6	7~5				
	4~0	Band2: Q	00~5F	0.5~10.0	09
7	7~6				
	5~0	Band1 Cutoff [Hz]	00~31	20~1.00kHz	05
8		Band2 Cutoff [Hz]	00~C7	50~10.00kHz	08
9	7~1	Band3: Q	00~5F	0.5~10.0	12
	0	Band1 Type	00~01	Peaking~Shelving-Low	01
10	7~1	Band3: Gain [dB]	DC~24	-18.0~+18.0dB	13
	0	Band4 Type	00~01	Peaking~Shelving-High	02
11		Band4 Cutoff [Hz]	00~C3	500~20.00kHz	14
12		Band4: Q	00~5F	0.5~10.0	15
13		Band4: Gain [dB]	DC~24	-18.0~+18.0dB	16
14		Wet/Dry	00~64	Dry~Wet	17
15		Wet/Dry: Amt	9C~64	-100~+100	19

08: St. Graphic 7EQ

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Type	00~0B	1:Wide 1 ~ 12:Wide High	00
1		Trim	00~64	0~100	01
2		Band1 [dB]	DC~24	-18.0~+18.0dB	02
3		Band2 [dB]	DC~24	-18.0~+18.0dB	03
4		Band3 [dB]	DC~24	-18.0~+18.0dB	04
5		Band4 [dB]	DC~24	-18.0~+18.0dB	05
6		Band5 [dB]	DC~24	-18.0~+18.0dB	06
7		Band6 [dB]	DC~24	-18.0~+18.0dB	07
8		Band7 [dB]	DC~24	-18.0~+18.0dB	08
9		Wet/Dry	00~64	Dry~Wet	09
10		Wet/Dry: Src	00~1F	Off~Tempo(*1)	10
11		Wet/Dry: Amt	9C~64	-100~+100	11

09: St. Wah/Auto Wah

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~6	Sweep Mode	00~02	Auto~LFO	02

1	5~0	Frequency Top	00~64	0~100	01
	7				
	6~0	Frequency Bottom	00~64	0~100	00
2	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	18
	2	Low Pass Filter	00~01	Off~On	16
	1~0	LFO Frequency: Src	00~1F	Off~Tempo(*1)	08
3	7~5				
	4~0	Sweep Mode: Src	00~1F	Off~Tempo(*1)	03
4		Response	00~64	0~100	04
5		Envelope Shape	9C~64	-100~+100	06
6		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	07
7		LFO Frequency [Hz]: Amt	8D~73	-20.00~+20.00Hz	09
8		Resonance	00~64	0~100	15
9		Wet/Dry	00~64	Dry~Wet	17
10		Wet/Dry: Amt	9C~64	-100~+100	19
13	7~1	Envelope Sens	00~64	0~100	05
	0	BPM/MIDI Sync	00~01	Off~On	10
14		BPM	27~F0	MIDI~240	11
15	7	(Reserved)	00~01	0~1(*3)	14
	6~3	Times	00~0F	x1~x16	13
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	12

10: St. Random Filter

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Manual	00~64	0~100	14
1		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	02
2		LFO Frequency [Hz]: Amt	8D~73	-20.00~+20.00Hz	04
3		LFO Step Freq [Hz]	01~C8	0.05~50.00Hz	05
4		LFO Step Freq [Hz]: Amt	DE~32	-50.00~50.00Hz	06
5		Depth: Amt	9C~64	-100~+100	17
6		Resonance	00~64	0~100	18
7		Wet/Dry	9C~64	-Wet~Wet	19
8		Wet/Dry: Amt	9C~64	-100~+100	21
9	7~1	Depth	00~64	0~100	15
	0	LFO Waveform	00~01	Step~Tri~Random	00
10	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	20
	2~0	Depth: Src	00~1F	Off~Tempo(*1)	16
11	7~6				
	5~0	LFO Phase [degree]	EE~12	-180~+180	01
12	6	(Reserved)	00~01	0~1(*4)	13
	5	BPM/MIDI Sync	00~01	Off~On	07
	4~0	LFO Frequency [Hz]: Src	00~1F	Off~Tempo(*1)	03
13		BPM	27~F0	MIDI~240	08
14	7~3	Step Base Note: Times	00~1F	x1~x32	12
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	09
15	7~4	Step Base Note	00~09	32/16T/16..4/2T/2/1	11
	3~0	Base Note: Times	00~0F	x1~x16	10

11: St. Exciter/Enhncr

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Exciter Blend	9C~64	-100~+100	00
1		Exciter Blend: Amt	9C~64	-100~+100	02
2		Emphatic Point	00~8C	0~70	03
3		Emphatic Point: Amt	9C~64	-100~+100	05
4		Enhancer Dly L [msec]	00~8C	0.0~50.0msec	06
5		Enhancer Dly R [msec]	00~8C	0.0~50.0msec	07
6		Enhancer Depth: Amt	9C~64	-100~+100	10
7		Wet/Dry: Amt	9C~64	-100~+100	16
8	6~0	EQ Trim	00~64	0~100	11
9	0	Enhancer Depth	00~64	0~100	08
10	7~2				
	1~0	Emphatic Point: Src	00~1F	Off~Tempo(*1)	04
11	7~5				
	4~0	Exciter Blend: Src	00~1F	Off~Tempo(*1)	01
12	6~2	Wet/Dry: Src	00~1F	Off~Tempo(*1)	15
	1~0	Wet/Dry	00~64	Dry~Wet	14
13	7~3				
	2~0	Pre HEQ Gain [dB]	E2~1E	-15.0~+15.0dB	13
14	7~4				
	3~0	Pre LEQ Gain [dB]	E2~1E	-15.0~+15.0dB	12
15	7~5				
	4~0	Enhancer Depth: Src	00~1F	Off~Tempo(*1)	09

12: St. Sub Oscillator

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		OSC Mode	00~01	Note~Fixed	00
1		Note Interval	D0~00	-48~0	01
2		(Reserved)			02
3		Note Fine	9C~64	-100~+100	03

4		Fixed Frequency [Hz]	14~A0	10.0~80.0Hz	04
5		Fixed Frequency: Src	00~1F	Off~Tempo(*1)	05
6		Fixed Frequency: Amt	B0~50	-80~+80Hz	06
7		Envelope Pre LPF	01~64	1~100	07
8		Envelope Sens	00~64	0~100	08
9		Envelope Shape	9C~64	-100~+100	09
10		Wet/Dry	00~64	Dry~Wet	10
11		Wet/Dry: Src	00~1F	Off~Tempo(*1)	11
12		Wet/Dry: Amt	9C~64	-100~+100	12

13: Talking Modulator

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~1	Manual Voice Control	00~64	Bottom~Top	01
	0	Sweep Mode	00~01	D-mod~LFO	00
1	7~5	Voice Top	00~04	A~O	11
	4~0	Manual Voice Control: Src	00~1F	Off~Tempo(*1)	02
2	5~3	Voice Bottom	00~04	A~O	13
	4~0	Voice Center	00~04	A~O	12
3		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	03
4		LFO Frequency: Src	00~1F	Off~Tempo(*1)	04
5		LFO Frequency: Amt	8D~73	-20.00~20.00Hz	05
6		Formant Shift	9C~64	-100~+100	14
7		Resonance	00~64	0~100	15
8		Wet/Dry: Src	00~1F	Off~Tempo(*1)	17
9		Wet/Dry: Amt	9C~64	-100~+100	18
13	7~1	Wet/Dry	00~64	Dry~Wet	16
	0	BPM/MIDI Sync	00~01	Off~On	06
14		BPM	27~F0	MIDI~240	07
15	7	(Reserved)	00~01	0~1(*5)	10
	6~3	Base Note: Times	00~0F	x1~x16	09
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	08

14: Stereo Decimator

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Output Level: Src	00~1F	Off~Tempo(*1)	07
	2~0	Resolution	04~18	4~24	05
1	7~5				
	4~0	Sampling Freq: Src	00~1F	Off~Tempo(*1)	02
2	6~2	Depth: Src	00~1F	Off~Tempo(*1)	16
	1~0	LFO Frequency: Src	00~1F	Off~Tempo(*1)	13
3	7~5				
	4~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	10
4	7~1	High Damp [%]	00~64	0~100%	04
	0	Pre LPF	00~01	Off~On	00
5		Output Level	00~64	0~100	06
6		Output Level: Amt	9C~64	-100~+100	08
7		Wet/Dry: Amt	9C~64	-100~+100	11
8		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	12
9		LFO Frequency: Amt	8D~73	-20.00~+20.00Hz	14
10	7~1	Wet/Dry	00~64	Dry~Wet	09
	0	Sampling Freq [Hz]	0A~01E0	1.00~48.00kHz	01
11	7~0				
12	7~1	Depth	00~64	0~100	15
	0	Sampling Freq: Amt	10~F0	-48.00~+48.00kHz	03
13	7~0				
15		Depth: Amt	9C~64	-100~+100	17

15: St. Analog Record

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~1	Noise Density	00~64	0~100	02
	0	Flutter	00~64	0~100	01
1	7~2				
	1~0	Speed [RPM]	00~02	33 1/3 ~ 78	00
2	6~2	Wet/Dry: Src	00~1F	Off~Tempo(*1)	15
	1~0	Click Level: Src	00~1F	Off~Tempo(*1)	08
3	7~5				
	4~0	Noise Level: Src	00~1F	Off~Tempo(*1)	05
4	6~0	Noise Tone	00~64	0~100	03
5	6~0	Noise Level	00~64	0~100	04
6	6~0	Click Level	00~64	0~100	06
7	6~0	EQ Trim	00~64	0~100	10
8	6~0	Pre EQ Cutoff [Hz]	00~61	300~10.00kHz	11
9	6~0	Pre EQ Cutoff: Q	00~5F	0.5~10.0	12
10	6~0	Pre EQ Cutoff: Gain [dB]	DC~24	-18.0~+18.0dB	13
11	6~0	Wet/Dry	00~64	Dry~Wet	14
13		Noise Level: Amt	9C~64	-100~+100	06
14		Click Level: Amt	9C~64	-100~+100	09
15		Wet/Dry: Amt	9C~64	-100~+100	16

16: St. Chorus

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	02
1		LFO Frequency: Amt	8D~73	-20.00~+20.00Hz	04
2		L Pre Delay [msec]	00~8C	0.0~50.0msec	10
3		R Pre Delay [msec]	00~8C	0.0~50.0msec	11
4		Depth	00~64	0~100	12
5		Depth: Amt	9C~64	-100~+100	14
6		Pre HEQ Gain [dB]	E2~1E	-15.0~+15.0dB	17
7		Wet/Dry	9C~64	-Wet~Wet	18
8		Wet/Dry: Src	00~1F	Off~Tempo(*1)	19
9		Wet/Dry: Amt	9C~64	-100~+100	20
10	7~2	Pre LEQ Gain [dB]	E2~1E	-15.0~+15.0dB	16
	1~0	Depth: Src	00~1F	Off~Tempo(*1)	13
11	7~5				
	4~0	LFO Frequency [Hz]: Src	00~1F	Off~Tempo(*1)	03
12	6~1	LFO Phase [degree]	EE~12	-180~+180	01
	0	LFO Waveform	00~01	Triangle~Sine	00
13	7~1	EQ Trim	00~64	0~100	15
	0	BPM/MIDI Sync	00~01	Off~On	05
14		BPM	27~F0	MIDI~240	06
15	7	(Reserved)	00~01	0~1(*4)	09
	6~3	Base Note: Times	00~0F	x1~x16	08
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	07

17: St. Harmonic Chorus

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~1	High Damp [%]	00~64	0~100%	16
	0	High/Low Split Point	01~64	1~100	14
1	7~2				
	1~0	Depth	00~64	0~100	11
2	7~3				
	2~0	LFO Frequency [Hz]: Src	00~19	Off~Tempo(*1)	03
3	7~6				
	5~1	LFO Phase [degree]	F7~09	-180~+180	01
	0	LFO Waveform	00~01	Triangle~Sine	00
4		Wet/Dry: Amt	9C~64	-100~+100	21
5	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	20
	2~0	High Level	00~64	0~100	18
6	7~4				
	3~0	Low Level	00~64	0~100	17
7	7~5				
	4~0	Depth: Src	00~1F	Off~Tempo(*1)	12
8		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	02
9		LFO Frequency: Amt	8D~73	-20.00~20.00Hz	04
10		Pre Delay [msec]	00~8C	0.0~50.0msec	10
11		Depth: Amt	9C~64	-100~+100	13
12		Feedback	9C~64	-100~+100	15
13	7~1	Wet/Dry	00~64	Dry~Wet	19
	0	BPM/MIDI Sync	00~01	Off~On	05
14		BPM	27~F0	MIDI~240	06
15	7	(Reserved)	00~01	0~1(*4)	09
	6~3	Base Note: Times	00~0F	x1~x16	08
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	07

18: Multitap Cho/Dly

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Tap1 Feedback	9C~64	-100~+100	17
1		Tap1 Feedback: Amt	9C~64	-100~+100	18
2		Wet/Dry: Amt	9C~64	-100~+100	21
3	7~4	Tap1: Pan	FA~06	L6~R6	04
	3~0	Tap4: Pan	FA~06	L6~R6	16
4	7~4	Tap2: Pan	FA~06	L6~R6	08
	3~0	Tap3: Pan	FA~06	L6~R6	12
5	5~0	Wet/Dry	00~64	Dry~Wet	19
6	7				
	6~2	Tap1 Feedback: Src	00~1F	Off~Tempo(*1)	20
	1~0	Tap2: Level	00~1E	0~30	07
7	7~5				
	4~0	Tap3: Level	00~1E	0~30	11
8	7~3	Tap1: Level	00~1E	0~30	03
	2~0	Tap2 (180) [msec]	00~7F	0~570msec	05
9	7~4				
	3~0	Tap2: Depth	00~1E	0~30	06
10	7				
	6~2	Tap3: Depth	00~1E	0~30	10
	1~0	Tap1: Depth	00~1E	0~30	02
11	7~5				

12	4~0	Tap4: Depth	00~1E	0~30	14
	7~3	Tap4: Level	00~1E	0~30	15
13	2~0	LFO Frequency [Hz]	01~3F	0.02~13.00Hz	00
	7~5				
14	4~0	Tap3 (090) [msec]	00~7F	0~570msec	09
	7~6				
15	5~0	Tap1 (000) [msec]	00~7F	0~570msec	01
	7				
	6~0	Tap4 (270) [msec]	00~7F	0~570msec	13

19: Ensemble

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Speed	01~64	1~100	00
1		Speed: Src	00~1F	Off~Tempo(*1)	01
2		Speed: Amt	9C~64	-100~+100	02
3		Depth	00~64	0~64	03
4		Depth: Src	00~1F	Off~Tempo(*1)	04
5		Depth: Amt	9C~64	-100~+100	05
6		Shimmer	00~64	0~100	06
7		Wet/Dry	00~64	Dry~Wet	07
8		Wet/Dry: Src	00~1F	Off~Tempo(*1)	08
9		Wet/Dry: Amt	9C~64	-100~+100	09

20: Stereo Flanger

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Delay Time [msec]	00~8C	0.0~50.0msec	00
1		LFO Shape	9C~64	-100~+100	02
2		LFO Frequency [Hz]	01~F0	0.02~20.00Hz	04
3		LFO Frequency: Src	00~1F	Off~Tempo(*1)	05
4		LFO Frequency: Amt	8D~73	-20.00~+20.00Hz	06
5		Depth	00~64	0~100	12
6		Feedback	9C~64	-100~+100	13
7		High Damp [%]	00~64	0~100%	14
9		Wet/Dry	9C~64	-Wet~Wet	15
10		Wet/Dry: Src	00~1F	Off~Tempo(*1)	16
11		Wet/Dry: Amt	9C~64	-100~+100	17
12	6~1	LFO Phase [degree]	EE~12	-180~+180	03
	0	LFO Waveform	00~01	Triangle~Sine	01
13		BPM/MIDI Sync	00~01	Off~On	07
14		BPM	27~F0	MIDI~240	08
15	7	(Reserved)	00~01	0~1(*4)	11
	6~3	Base Note: Times	00~0F	x1~x16	10
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	09

21: St. Random Flanger

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Delay Time [msec]	00~8C	0.0~50.0msec	00
1		LFO Frequency [Hz]	01~F0	0.02~20.00Hz	03
2		LFO Frequency: Amt	8D~73	-20.00~20.00Hz	05
3		LFO Step Freq [Hz]	01~C8	0.05~50.00Hz	06
4		LFO Step Freq: Amt	9C~64	-100~+100	07
5		Depth	00~64	0~100	15
6		Feedback	9C~64	-100~+100	16
7		High Damp [%]	00~64	0~100%	17
8		Wet/Dry	9C~64	-Wet~Wet	18
9		Wet/Dry: Src	00~1F	Off~Tempo(*1)	19
10		Wet/Dry: Amt	9C~64	-100~+100	20
11	6~1	LFO Phase [degree]	EE~12	-180~+180	02
	0	LFO Waveform	00~01	Step-Tri~Random	01
12	6	(Reserved)	00~01	0~1(*4)	14
	5	BPM/MIDI Sync	00~01	Off~On	08
	4~0	LFO Frequency: Src	00~1F	Off~Tempo(*1)	04
13		BPM	27~F0	MIDI~240	09
14	7~3	Step Base Note: Times	00~1F	x1~x32	13
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	10
15	7~4	Step Base Note	00~09	32/16T/16..4/2T/2/1	12
	3~0	Base Note: Times	00~0F	x1~x16	11

22: St. Env. Flanger

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		L Dly Bottom [msec]	00~8C	0.0~50.0msec	00
1		L Dly Top [msec]	00~8C	0.0~50.0msec	01
2		R Dly Bottom [msec]	00~8C	0.0~50.0msec	02
3		R Dly Top [msec]	00~8C	0.0~50.0msec	03

4		Sweep Mode	00~01	EG~D-mod	04
5		Sweep Mode: Src	00~1F	Off~Tempo(*1)	05
6		EG Attack	01~64	1~100	06
7		EG Delay	01~64	1~100	07
8		Feedback	9C~64	-100~+100	08
9		High Damp [%]	00~64	0~100%	09
10		Wet/Dry	9C~64	-Wet~Wet	10
11		Wet/Dry: Src	00~1F	Off~Tempo(*1)	11
12		Wet/Dry: Amt	9C~64	-100~+100	12

23: Stereo Phaser

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		LFO Shape	9C~64	-100~+100	01
1		LFO Frequency [Hz]	01~F0	0.02~20.00Hz	03
2		LFO Frequency: Src	00~1F	Off~Tempo(*1)	04
3		LFO Frequency : Amt	9D~73	-20.00~+20.00Hz	05
4		Manual	00~64	0~100	11
5		Depth	00~64	0~100	12
6		Depth: Src	00~1F	Off~Tempo(*1)	13
7		Depth: Amt	9C~64	-100~+100	14
8		Resonance	9C~64	-100~+100	15
9		Wet/Dry	9C~64	-Wet~Wet	17
10		Wet/Dry: Src	00~1F	Off~Tempo(*1)	18
11		Wet/Dry: Amt	9C~64	-100~+100	19
12	6~1	LFO Phase [degree]	EE~12	-180~+180	02
	0	LFO Waveform	00~01	Triangle~Sine	00
13	7~1	High Damp [%]	00~64	0~100%	16
	0	BPM/MIDE Sync	00~01	Off-On	06
14		BPM	27~F0	MIDI~240	07
15	7	(Reserved)	00~01	0~1(*4)	10
	6~3	Base Note: Times	00~0F	x1~x16	09
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	08

24: St. Random Phaser

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Manual	00~64	0~100	14
1		LFO Frequency [Hz]	01~F0	0.02~20.00Hz	02
2		LFO Frequency : Amt	9D~73	-20~+20.00Hz	04
3		LFO Step Freq [Hz]	01~C8	0.05~50.00Hz	05
4		LFO Step Freq: Amt	9C~64	-100~+100	06
5		Depth	00~64	0~100	15
6		Resonance	9C~64	-100~+100	16
7		High Damp [%]	00~64	0~100%	17
8		Wet/Dry	00~64	0~100	18
9		Wet/Dry: Src	00~1F	Off~Tempo(*1)	19
10		Wet/Dry: Amt	9C~64	-100~+100	20
11	7~2	LFO Phase [degree]	EE~12	-180~+180	01
	1~0	LFO Waveform	00~02	Step-Tri~Random	00
12	6	(Reserved)	00~01	0~1(*4)	13
	5	BPM/MIDI Sync	00~01	Off-On	07
	4~0	LFO Frequency: Src	00~1F	Off~Tempo(*1)	03
13		BPM	27~F0	MIDI~240	08
14	7~3	Step Base Note: Times	00~1F	x1~x32	12
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	09
15	7~4	Step Base Note	00~09	32/16T/16..4/2T/2/1	11
	3~0	Base Note: Times	00~0F	x1~x16	10

25: St. Env Phaser

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		L Manu Bottom	00~64	0~100	00
1		L Manu Top	00~64	0~100	01
2		R Manu Bottom	00~64	0~100	02
3		R Manu Top	00~64	0~100	03
4		Sweep Mode	00~01	EG~D-mod	04
5		Sweep Mode: Src	00~1F	Off~Tempo	05
6		EG Attack	01~64	1~100	06
7		EG Delay	01~64	1~100	07
8		Resonance	9C~64	-100~+100	08
9		High Damp [%]	00~64	0~100%	09
10		Wet/Dry	9C~64	-Wet~Wet	10
11		Wet/Dry: Src	00~1F	Off~Tempo(*1)	11
12		Wet/Dry: Amt	9C~64	-100~+100	12

26: St.Biphase Mod.

OFS	bit	parameter	DATA(hex)	Value	SUB ID
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0		LFO1 Frequency [Hz]	01~FA	0.02~30.00Hz	03
1		LFO2 Frequency [Hz]	01~FA	0.02~30.00Hz	06
2		L Pre Delay [msec]	00~8C	0.0~50.0msec	13
3	7	LFO1 Waveform	00~01	Triangle~Sine	00
	6~0	Depth1	00~64	0~100	08
4	7	LFO2 Waveform	00~01	Triangle~Sine	01
	6~0	Depth2	00~64	0~100	11
5		Feedback	9C~64	-100~+100	15
6	7	LFO Phase Sw	00~01	0 degree ~ 180 degree	02
	6~0	High Damp [%]	00~64	0~100%	16
7		Wet/Dry	9C~64	-Wet~Wet	17
8		LFO1 Frequency: Amt	83~7D	-30.00~+30.00	05
9		LFO2 Frequency: Amt	83~7D	-30.00~+30.00	07
10		Depth1: Amt	9C~64	-100~+100	10
11		Depth2: Amt	9C~64	-100~+100	12
12		Wet/Dry: Amt	9C~64	-100~+100	19
13		R Pre Delay [msec]	00~8C	0.0~50.0msec	14
14	6~2	LFO1 Frequency: Src	00~1F	Off~Tempo(*1)	04
	1~0	Depth1: Src	00~1F	Off~Tempo(*1)	09
15	7~5				
	4~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	18

27: Stereo Vibrato

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	15
	2~0	Depth: Src	00~1F	Off~Tempo(*1)	12
1	7~5				
	4~1	LFO Frequency: Src	00~1F	Off~Tempo(*1)	04
	0	LFO Waveform	00~01	Triangle~Sine	00
2		LFO Shape	9C~64	-100~+100	01
3		LFO Frequency [Hz]	01~F0	0.02~20.00Hz	03
4		LFO Frequency: Amt	9D~73	-20.00~+20.00Hz	05
5		Depth: Amt	9C~64	-100~+100	13
6		Wet/Dry: Amt	9C~64	-100~+100	16
7		Fade-In Delay [msec]	00~C8	00~2000msec	19
10	4~0	AUTOFADE Src	00~1F	Off~Tempo(*1)	17
11	6~0	Wet/Dry	00~64	Dry/Wet	14
12	7~1	Depth	00~64	0~100	11
	0	LFO Frequency Mod	00~01	D-mod~AUTOFADE	02
13	7~1	Fade-In Rate	01~64	1~100	18
	0	BPM/MIDI Sync	00~01	Off-On	06
14		BPM	27~F0	MIDI~240	07
15	7	(Reserved)	00~01	0~1(*4)	10
	6~3	Base Note: Times	00~0F	x1~x16	09
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	08

28: St. Auto Fade Mod.

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	6~2	AUTOFADE Src	00~1F	Off~Tempo(*1)	16
	1~0	R Delay Time [msec]	00~01388	0.0~500.0msec	08
1	7~0				
2	7~5				
	4~0	L Delay Time [msec]	00~01388	0.0~500.0msec	07
3	7~0				
4	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	14
	2~0	LFO Frequency: Src	00~1F	Off~Tempo(*1)	05
5	7~6				
	5	LFO Frequency Mod	00~01	D-mod~AUTOFADE	03
	4~1	LFO Phase [degree]	EE~12	-180~+180	02
	0	LFO Waveform	00~01	Triangle~Sine	00
6	7	Wet/Dry Mod	00~01	D-mod~AUTOFADE	12
	6~0	High Damp [%]	00~64	0~100%	11
7		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	04
8		LFO Frequency: Amt	8D~73	-20.00~+20.00Hz	06
9		Depth	00~C8	0~200	09
10		LFO Shape	9C~64	-100~+100	01
11		Feedback	9C~64	-100~+100	10
12	6~0	Fade-In Rate	01~64	1~100	17
13		Wet/Dry	9C~64	-Wet~Wet	13
14		Wet/Dry: Amt	9C~64	-100~100	15
15		Fade-In Dly [msec]	00~C8	0~2000msec	18

29: 2Voice Resonator

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~4	Voice2: Fine [cent]	FB~05	-50~+50	20
	3~0	Voicel: Fine [cent]	FB~05	-50~+50	19
1	7	LFO/D-mod Invert	00~01	Off-On	01
	6~0	Trim	00~64	0~100	03
2		Voicel: Resonance	9C~64	-100~+100	08

3		Voice2: Resonance	9C~64	-100~+100	09
4		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	04
5		Wet/Dry: Amt	9C~64	-100~+100	18
6		Mod. Depth	9C~64	-100~+100	05
7	7~4	Voice2: Pan	FA~06	L6~R6	15
	3~0	Voice1: Pan	FA~06	L6~R6	14
8	6~2	Wet/Dry: Src	00~1F	Off~Tempo(*1)	17
	1~0	D-mod Src	00~1F	Off~Tempo(*1)	02
9	7~5				
	4~0	Wet/Dry	00~64	Dry~Wet	16
10	7~6				
	5~0	Voice2: Level	00~64	0~100	13
11	7				
	6~0	Voice1: Level	00~64	0~100	12
12	5~4	Control Mode	00~02	Manual~D-mod	00
	3~0	Voice2: High Damp [%]	00~64	0~100%	11
13	7~5				
	4~0	Voice1: High Damp [%]	00~64	0~100%	10
14	7~6				
	5~0	Voice2: Pitch	00~6B	C0~B8	07
15	7				
	6~0	Voice1: Pitch	00~6B	C0~B8	06

30: Doppler

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	17
	2~0	Pan Depth: Src	00~1F	Off~Tempo(*1)	14
1	7~6				
	5~1	Pitch Depth: Src	00~1F	Off~Tempo(*1)	11
	0	Pitch Depth	00~64	0~100	10
2	7~2				
	1~0	LFO Frequency : Src	00~1F	Off~Tempo(*1)	03
3	7~5				
	4~0	LFO Mode: Src	00~1F	Off~Tempo(*1)	01
4	7~1	Wet/Dry	00~64	Dey~Wet	16
	0	LFO Mode	00~01	Loop~1-Shot	00
5		LFO Frequency [Hz]	01~F0	0.02~20.00Hz	02
6		LFO Frequency : Amt	9D~73	-20.00~+20.00Hz	04
7		Pitch Depth: Amt	9C~64	-100~+100	12
8		Pan Depth	9C~64	-100~+100	13
9		Pan Depth: Amt	9C~64	-100~+100	15
10		Wet/Dry: Amt	9C~64	-100~+100	18
13	1	LFO Sync	00~01	Off-On	19
	0	BPM/MIDI Sync	00~01	Off-On	05
14		BPM	27~F0	MIDI~240	06
15	7	(Reserved)	00~01	0~1(*4)	09
	6~3	Base Note: Times	00~0F	x1~x16	08
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	07

31: Scratch

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Wet/Dry: Amt	9C~64	-100~+100	09
1	7~6	Direct Mix	00~02	Always On ~ Cross Fade	06
	5~1	Envelope Select: Src	00~1F	Off~Tempo(*1)	03
2	7~1	Threshold	00~64	0~100	04
	0	Envelope Select	00~01	D-mod~Input	02
3	6~0	Wet/Dry	00~64	Dry~Wet	07
4	4~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	08
5	5~1	Scratch Source	00~1F	Off~Tempo(*1)	00
6		Response	00~64	0~100	05
7		Scratch Response	00~64	0~100	01

32: Stereo Tremolo

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		LFO Shape	9C~64	-100~+100	01
1		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	03
2		LFO Frequency : Amt	9D~73	-20.00~+20.00Hz	05
3		Depth	00~64	0~100	11
4		Depth: Src	00~1F	Off~Tempo(*1)	12
5		Depth: Amt	9C~64	-100~+100	13
6		Wet/Dry	00~64	Dry~Wet	14
7		Wet/Dry: Src	00~1F	Off~Tempo(*1)	15
8		Wet/Dry: Amt	9C~64	-100~+100	16
9	7~3	LFO Frequency : Src	00~1F	Off~Tempo(*1)	04
	2~0	LFO Waveform	00~04	Triangle~Down	00
12	6~1	LFO Phase [degree]	EE~12	-180~+180	02
13	0	BPM/MIDI Sync	00~01	Off-On	06
14		BPM	27~F0	MIDI~240	07
15	7	(Reserved)	00~01	0~1(*4)	10

	6~3	Base Note: Times	00~0F	x1~x16	09
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	08

33: St. Env. Tremolo

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Envelope Sens	00~64	0~100	00
1		Envelope Shape	9C~64	-100~+100	01
2		LFO Waveform	00~02	Triangle~Vintage	02
3		LFO Shape	9C~64	-100~+100	03
4		LFO Phase [degree]	EE~12	-180~+180	04
5		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	05
6		Envelope Amount [Hz]	9D~73	-20.00~+20.00Hz	06
7		Depth	00~64	0~100	07
8		Envelope Amount	9C~64	-100~+100	08
9		Wet/Dry	00~64	Dry~Wet	09
10		Wet/Dry: Src	00~1F	Off~Tempo(*1)	10
11		Wet/Dry: Amt	9C~64	-100~+100	11

34: Stereo Auto Pan

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		LFO Shape	9C~64	-100~+100	01
1		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	03
2		LFO Frequency : Amt	9D~73	-20.00~+20.00Hz	05
3		Depth	00~64	0~100	11
4		Depth: Src	00~1F	Off~Tempo(*1)	12
5		Depth: Amt	9C~64	-100~+100	13
6		Wet/Dry	00~64	Dry~Wet	14
7		Wet/Dry: Src	00~1F	Off~Tempo(*1)	15
8		Wet/Dry: Amt	9C~64	-100~+100	16
9	7~3	LFO Frequency : Src	00~1F	Off~Tempo(*1)	04
	0	LFO Waveform	00~04	Triangle~Sine	00
12	6~1	LFO Phase [degree]	EE~12	-180~+180	02
13	0	BPM/MIDI Sync	00~01	Off~On	06
14		BPM	27~F0	MIDI~240	07
15	7	(Reserved)	00~01	0~1(*4)	10
	6~3	Base Note: Times	00~0F	x1~x16	09
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	08

35: St. Phaser + Trml

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	LFO Frequency : Src	00~1F	Off~Tempo(*1)	03
	2~0	Type	00~05	Phs-Trml~Phs LR-Trml LR	00
1	7~3	Phaser Depth: Src	00~1F	Off~Tempo(*1)	12
	2~0	LFO Phase [degree]	FE~02	-180~+180	01
2		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	02
3		LFO Frequency: Amt	9D~73	-20.00~+20.00Hz	04
4	7~3	Tremolo Depth: Src	00~1F	Off~Tempo(*1)	18
	2~0	Phaser Wet/Dry	CE~32	-Wet~Wet	15
5	7~5				
	4~0	Resonance	CE~32	-100~100	14
6	7~6				
	5~0	Phaser Depth: Amt	CE~32	0~100	13
7	7				
	6~0	Phaser Depth	00~32	0~100	11
8	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	21
	2~0	Wet/Dry	00~64	Dry~Wet	20
9	7~4				
	3~0	Tremolo Depth: Amt	CE~32	-100~+100	19
10	7~5				
	4~0	Tremolo Depth	00~32	0~100	17
11	7				
	6~0	Tremolo Shape	CE~32	-100~+100	16
12		Wet/Dry: Amt	9C~64	-100~+100	22
13	7~1	Phaser Manual	00~64	0~100	10
	0	BPM/MIDI Sync	00~01	Off~On	05
14		BPM	27~F0	MIDI~240	06
15	7	(Reserved)	00~01	0~1(*4)	09
	6~3	Base Note: Times	00~0F	x1~x16	08
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	07

36: St. Ring Modulator

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~1	Wet/Dry	00~64	Dry~Wet	19
	0	(Reserved)	00~01	0~1(*4)	06
1	7~4				

2	3~0	Note Offset	D0~30	-48~+48	05
	7~5				
3	4~0	Fixed Frequency: Amt	9E~72	-12.00~+12.00kHz	04
	7~5				
4	4~0	Fixed Frequency: Src	00~1F	Off~Tempo(*1)	03
	6~2	Wet/Dry: Src	00~1F	Off~Tempo(*1)	20
	1~0	LFO Depth: Src	00~1F	Off~Tempo(*1)	17
5	7~5				
	4~0	LFO Frequency: Src	00~1F	Off~Tempo(*1)	09
6	7	OSC Mode	00~01	Fixed~Note	01
	6~0	Pre LPF	00~64	0~100	00
7		Fixed Frequency [Hz]	00~E4	0~12.00kHz	02
8		Note Fine	9C~64	-100~+100	07
9		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	08
10		LFO Frequency: Amt	8D~73	-20~+20.00Hz	10
11		LFO Depth: Amt	9C~64	-100~+100	18
12		Wet/Dry: Amt	9C~64	-100~+100	21
13	7~1	LFO Depth	00~64	0~100	16
	0	BPM/MIDI Sync	00~01	Off~On	11
14		BPM	27~F0	MIDI~240	12
15	7	(Reserved)	00~01	0~1(*4)	15
	6~3	Base Note: Times	00~0F	x1~x16	14
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	13

37: Detune

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Pitch Shift [cent]	9C~64	-100~+100cent	00
1		Pitch Shift: Src	00~1F	Off~Tempo(*1)	01
2		Pitch Shift: Amt	9C~64	-100~+100	02
3		Delay Time [msec]	00~BE	0~1000msec	03
4		Feedback	9C~64	-100~+100	04
5		High Damp [%]	00~64	0~100%	05
6		Input Level: Src	00~1F	Off~Tempo(*1)	06
7		Input Level Dmod [%]	9C~64	-100~+100	07
8		Wet/Dry	00~64	Dry~Wet	08
9		Wet/Dry: Src	00~1F	Off~Tempo(*1)	09
10		Wet/Dry: Amt	9C~64	-100~+100	10

38: Pitch Shifter

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Mode	00~02	Slow~Fast	00
1		Pitch Shift [1/2tone]	E8~18	-24~+24	01
2		Pitch Shift: Src	00~1F	Off~Tempo(*1)	02
3		Pitch Shift: Amt	E8~18	-24~+24	03
4		Fine [cent]	9C~64	-100~+100cent	04
5		Fine: Amt	9C~64	-100~+100cent	05
6		Delay Time [msec]	00~BE	0~1000msec	06
7		Feedback Position	00~01	Pre~Post	07
8		Feedback	9C~64	-100~+100	08
9		High Damp [%]	00~64	0~100%	09
10		Input Level: Src	00~1F	Off~Tempo(*1)	10
11		Input Level Dmod [%]	9C~64	-100~+100	11
12		Wet/Dry	00~64	Dry~Wet	12
13		Wet/Dry: Src	00~1F	Off~Tempo(*1)	13
14		Wet/Dry: Amt	9C~64	-100~+100	14

39: Pitch Shift Mod.

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Pitch Shift [cent]	9C~64	-100~+100cent	00
1		LFO Waveform	00~01	Triangle~Square	01
2		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	02
3		LFO Frequency: Src	00~1F	Off~Tempo(*1)	03
4		LFO Frequency: Amt	9D~73	-20~+20.00Hz	04
5		Depth	00~64	0~100	10
6		Depth: Src	00~1F	Off~Tempo(*1)	11
7		Depth: Amt	9C~64	-100~+100	12
8		Pan	00~64	0~100	13
9		Wet/Dry	00~64	Dry~Wet	14
10		Wet/Dry: Src	00~1F	Off~Tempo(*1)	15
11		Wet/Dry: Amt	9C~64	-100~+100	16
13	0	BPM/MIDE Sync	00~01	Off~On	05
14		BPM	27~F0	MIDI~240	06
15	7	(Reserved)	00~01	0~1(*4)	09
	6~3	Base Note: Times	00~0F	x1~x16	08
	2~0	Base Note	00~07	16/8T/8/4T/4/2T/2/1	07

40: Rotary Speaker

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	3	Speed Switch: Sw	00~01	Toggle~Moment	05
	2	Mode Switch: Sw	00~01	Toggle~Moment	02
	1	Speed Switch	00~01	Slow~Fast	03
	0	Mode Switch	00~01	Rotate~Stop	00
1		Rotor Acceleration	00~64	0~100	07
2		Rotor Ratio	31~C8	Stop~2.00	08
3		Horn Acceleration	00~64	0~100	09
4		Horn Ratio	31~C8	Stop~2.00	10
5		Horn/Rotor Balance	00~64	0~100	11
6		Mic Distance	00~64	0~100	12
7		Mic Spread	00~64	0~100	13
8		Wet/Dry	00~64	Dry~Wet	14
9		Manual Speed Cntl	00~1F	Off~Tempo(*1)	06
10		Mode Switch: Src	00~1F	Off~Tempo(*1)	01
11		Speed Switch: Src	00~1F	Off~Tempo(*1)	04
12		Wet/Dry: Src	00~1F	Off~Tempo(*1)	15
13		Wet/Dry: Amt	9C~64	-100~+100	16

41: Early Reflections

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Type	00~03	Sharp~Reverse	00
1		ER Time [msec]	0A~AA	10~800msec	01
2		Pre Delay [msec]	00~C8	0~200msec	02
3		EQ Trim	00~64	0~100	03
4		Pre LEQ Gain [dB]	E2~1E	-15.0~+15.0dB	04
5		Pre HEQ Gain [dB]	E2~1E	-15.0~+15.0dB	05
6		Wet/Dry	00~64	Dry~Wet	06
7		Wet/Dry: Src	00~1F	Off~Tempo(*1)	07
8		Wet/Dry: Amt	9C~64	-100~+100	08

42: Auto Reverse

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Wet/Dry: Amt	9C~64	-100~+100	07
1	7~6	Direct Mix	00~02	Always On~Cross Fade	04
	5~1	Envelope: Src	00~1F	Off~Tempo(*1)	02
	0	Rec Mode	00~01	Single~Multi	00
2	7~1	Threshold	00~64	0~100	03
	0	Envelope Select	00~01	D-mod~Input	01
3	6~0	Wet/Dry	00~64	Dry~Wet	05
4	4~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	06
5		Reverse Time [msec]	14~DE	20~1320msec	08
6		Response	00~64	0~100	09

43: L/C/R Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Feedback (C Delay)	9C~64	-100~+100	06
1		C Delay Time [msec]	00~0550	0~1360msec	02
2	7~4				
3	3~0	L Delay Time [msec]	00~0550	0~1360msec	00
4		Feedback: Amt	9C~64	-100~+100	08
5		R Delay Time [msec]	00~0550	0~1360msec	04
6	7~4				
	3~0	C Delay Level	00~32	0~50	03
7	7~6				
	5~0	L Delay Level	00~32	0~50	01
8		Input Level Dmod [%]	9C~64	-100~+100	12
9	7~2	Spread	00~32	0~50	13
	1~0	High Damp [%]	00~64	0~100%	09
10	7~3				
	2~0	Feedback: Src	00~1F	Off~Tempo(*1)	07
11	7~6				
	5~0	R Delay Level	00~32	0~50	05
12		Wet/Dry: Amt	9C~64	-100~+100	16
13	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	15
	2~0	Wet/Dry	00~64	Dry~Wet	14
14	7~4				
	3~0	Input Level: Src	00~1F	Off~Tempo(*1)	11
15	7				
	6~0	Low Damp [%]	00~64	0~100%	10

44: Stereo/Cross Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
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0		L Feedback	9C~64	-100~+100	05
1		R Feedback	9C~64	-100~+100	06
2		L Feedback: Amt	9C~64	-100~+100	08
3		R Feedback: Amt	9C~64	-100~+100	09
4		Wet/Dry: Amt	9C~64	Dry~Wet	04
5		Input Level Dmod [%]	9C~64	-100~+100	13
6	3~0	Input Level Src	00~1F	Off~Tempo(*1)	12
7	7				
	6~0	Low Damp [%]	00~64	0~100%	11
8	7	Stereo/Cross	00~01	Stereo~Cross	15
	6~2	Feedback: Src	00~1F	Off~Tempo(*1)	07
	1~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	03
9	7~5				
	4~0	High Damp [%]	00~64	0~100%	10
10	7~6				
	5~0	Spread	CE~32	-50~+50	14
11	7				
	6~0	Wet/Dry	00~64	Dry~Wet	02
12	3~0	R Delay Time [msec]	00~01A90	0.0~680.0msec	01
13					
14	7~6				
	5~0	L Delay Time [msec]	00~01A90	0.0~680.0msec	00
15					

45: St. Multitap Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Feedback (Tap2)	9C~64	-100~+100	05
1		Feedback: Amt	9C~64	-100~+100	07
2		Spread	9C~64	-100~+100	12
3		Spread: Amt	9C~64	-100~+100	14
4		Wet/Dry: Amt	9C~64	-100~+100	04
5		Input Level Dmod [%]	9C~64	-100~+100	11
6	3~2	Mode	00~03	Normal~Cross Pan2	15
	1~0	Input Level Src	00~1F	Off~Tempo(*1)	10
7	7~5				
	4~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	03
8	7~3	Feedback: Src	00~1F	Off~Tempo(*1)	06
	2~0	Tap1 Level	00~64	0~100	16
9	7~4				
	3~0	Wet/Dry	00~64	Dry~Wet	02
10	7~5				
	4~0	Tap1 Time [msec]	00~01A90	0.0~680.0msec	00
11					
12	7~3	Spread: Src	00~1F	Off~Tempo(*1)	13
	2~0	Low Damp [%]	00~64	0~100%	09
13	7~4				
	3~0	High Damp [%]	00~64	0~100%	08
14	7~5				
	4~0	Tap2 Time [msec]	00~01A90	0.0~680.0msec	01
15					

46: St. Modulation Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		L Feedback	9C~64	-100~+100	14
1		R Feedback	9C~64	-100~+100	15
2		L Depth	00~C8	0~200	10
3		R Depth	00~C8	0~200	11
4		LFO Shape	9C~64	-100~+100	04
5		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	05
6		Wet/Dry: Amt	9C~64	-100~+100	18
7	7	LFO Waveform	00~01	Triangle~Sine	03
	6	D-mod Modulation	00~01	L/R: +/+~L/R: +/-	19
	5~0	L LFO Phase [degree]	EE~12	-180~+180	08
8		Wet/Dry	9C~64	-Wet~Wet	16
9	7	LFO Sync	00~01	Off~On	06
	6~2	D-mod Modulation: Src	00~1F	Off~Tempo(*1)	01
	1~0	LFO Sync: Src	00~1F	Off~Tempo(*1)	07
10	7~5				
	4~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	17
11	7	Modulation Mode	00~01	LFO~D-mod	00
	6~0	Response	00~1E	0~30	02
12	7~2	R LFO Phase [degree]	EE~12	-180~+180	09
	1~0	R Delay Time [msec]	00~01388	0.0~500.0msec	13
13					
14	7~5				
	4~0	L Delay Time [msec]	00~01388	0.0~500.0msec	12
15					

47: St. Dynamic Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
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0		Threshold	00~64	0~100	02
1		Attack	00~64	0~100	03
2		Release	00~64	0~100	04
3		Feedback	9C~64	-100~+100	10
4		High Damp [%]	00~64	0~100%	11
5		Low Damp [%]	00~64	0~100%	12
6		Spread	9C~64	-100~+100	13
7		Wet/Dry	00~64	0~100	07
8		Wet/Dry: Src	00~1F	Off~Tempo(*1)	08
9		Wet/Dry: Amt	00~64	0~100	09
10		Control Target	00~02	None~FB	00
11	7~1	Offset	00~64	0~100	14
12	0	Polarity	00~01	+~-	01
13		L Delay Time [msec]	00~01A90	0.0~680.0msec	05
14		R Delay Time [msec]	00~01A90	0.0~680.0msec	06
15					

48: St. Auto Panning Dly

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	LFO Phase [degree]	EE~12	-180~+180	08
1	1~0	R Delay Time [msec]	00~01A90	0.0~680.0msec	01
2	7~5				
3	4~0	L Delay Time [msec]	00~01A90	0.0~680.0msec	00
4	2~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	14
5	7~6				
6	5~1	Panning Depth: Src	00~1F	Off~Tempo(*1)	11
7	0	LFO Waveform	00~01	Triangle~Sine	06
8		L Feedback	9C~64	-100~+100	02
9		R Feedback	9C~64	-100~+100	03
10		High Damp [%]	00~64	0~100%	04
11		Low Damp [%]	00~64	0~100%	05
12		LFO Shape	9C~64	-100~+100	07
13		Panning Frequency [Hz]	01~E6	0.02~20.00Hz	09
14		Panning Depth: Amt	9C~64	-100~+100	12
15		Panning Depth	00~64	0~100	10
16		Wet/Dry	00~64	Dry~Wet	13
17		Wet/Dry: Amt	9C~64	-100~+100	15

49: L/C/R BPM Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Feedback (C Delay)	9C~64	-100~+100	12
1	2	(Reserved)	00~01	0~1(*6)	01
2	1	Time Over? >	00~01	----~OVER!!	11
3	0	R Delay Base Note: Times	00~0F	x1~x16	09
4	7~5				
5	4~1	C Delay Base Note: Times	00~0F	x1~x16	06
6	0	R Delay Base Note	00~07	16/8T/8/4T/4/2T/2/1	08
7	7~6				
8	5~3	C Delay Base Note	00~07	16/8T/8/4T/4/2T/2/1	05
9	2~0	L Delay Base Note	00~07	16/8T/8/4T/4/2T/2/1	02
10		Feedback: Amt	9C~64	-100~+100	14
11		BPM	27~F0	MIDI~240	00
12	7~4	L Delay Base Note: Times	00~0F	x1~x16	03
13	3~0	C Delay Level	00~32	0~50	07
14	7~6				
15	5~0	L Delay Level	00~32	0~50	04
16		Input Level Dmod [%]	9C~64	-100~+100	18
17	7~2	Spread	00~32	0~50	19
18	1~0	High Damp [%]	00~64	0~100%	15
19	7~3				
20	2~0	Feedback: Src	00~1F	Off~Tempo(*1)	13
21	7~6				
22	5~0	R Delay Level	00~32	0~50	10
23		Wet/Dry: Amt	9C~64	-100~+100	22
24	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	21
25	2~0	Wet/Dry	00~64	Dry~Wet	20
26	7~4				
27	3~0	Input Level Src	00~1F	Off~Tempo(*1)	17
28	7				
29	6~0	Low Damp [%]	00~64	0~100%	16

50: St. BPM Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		L Feedback	9C~64	-100~+100	13
1		R Feedback	9C~64	-100~+100	14

2		L Feedback: Amt	9C~64	-100~+100	16
3		L Feedback: Amt	9C~64	-100~+100	17
4		BPM	27~F0	MIDI~240	00
5	7	Time Over? L >	00~01	---OVER!!	05
	6~3	L Delay Base Note: Times	00~0F	x1~x16	03
	2~0	L Delay Base Note	00~07	16/8T/8/4T/4/2T/2/1	02
6	7	Time Over? R >	00~01	---OVER!!	09
	6~3	R Delay Base Note: Times	00~0F	x1~x16	07
	2~0	R Delay Base Note	00~07	16/8T/8/4T/4/2T/2/1	06
7		Input Level Dmod [%]	9C~64	-100~+100	21
8		Wet/Dry: Amt	9C~64	-100~+100	12
9	7	(Reserved)	00~01	0~1(*6)	01
	6~0	Wet/Dry	00~64	Dry~Wet	10
10		L Delay: Adjust [%]	06~FA	-2.5~2.5%	04
11	7				
	6~0	High Damp [%]	00~64	0~100%	18
12		R Delay: Adjust [%]	06~FA	-2.5~2.5%	08
13	7				
	6~0	Low Damp [%]	00~64	0~100%	19
14	6~2	Wet/Dry: Src	00~1F	Off~Tempo(*1)	11
	1~0	Input Level Src	00~1F	Off~Tempo(*1)	20
15	7~5				
	4~0	Feedback: Src	00~1F	Off~Tempo(*1)	15

51: Sequence Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		BPM	2B~F0	MIDI~240	00
1		Rhythm Pattern	00~14		02
2		Feedback	9C~64	-100~+100	03
3		Feedback: Amt	9C~64	-100~+100	05
4		Input Level Dmod [%]	9C~64	-100~+100	09
5		Wet/Dry: Amt	9C~64	-100~+100	12
6	7~1	High Damp [%]	00~64	0~100%	06
	0	(Reserved)	00~01	0~1(*6)	01
7	7~1	Low Damp [%]	00~64	0~100%	07
8	3~0	Tap4 Pan	00~64	L~R	16
9	7~5				
	4~0	Tap3 Pan	00~64	L~R	15
10	7~6				
	5~0	Tap2 Pan	00~64	L~R	14
11	7				
	6~0	Tap1 Pan	00~64	L~R	13
13	6~0	Wet/Dry	00~64	Dry~Wet	10
14	6~2	Wet/Dry: Src	00~1F	Off~Tempo(*1)	11
	1~0	Input Level Src	00~1F	Off~Tempo(*1)	08
15	7~5				
	4~0	Feedback: Src	00~1F	Off~Tempo(*1)	04

52: Reverb Hall, 53: Reverb SmoothHall, 54: Reverb Wet Plate, 55: Reverb Dry Plate

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Reverb Time [sec]	01~64	0.1~10.0sec	00
1		High Damp [%]	00~64	0~100%	01
2		Pre Delay [msec]	00~C8	0~200msec	02
3		Pre Delay Thru [%]	00~64	0~100%	03
6		EQ Trim	00~64	0~100	04
7		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	05
8		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	06
9		Wet/Dry	00~64	Dry~Wet	07
10		Wet/Dry: Src	00~1F	Off~Tempo(*1)	08
11		Wet/Dry: Amt	9C~64	-100~+100	09

56: Reverb Room, 57: Reverb BrightRoom

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Reverb Time [sec]	01~1E	0.1~3.0sec	00
1		High Damp [%]	00~64	0~100%	01
2		Pre Delay [msec]	00~C8	0~200msec	02
3		Pre Delay Thru [%]	00~64	0~100%	03
4		ER Level	00~64	0~100	04
5		Reverb Level	00~64	0~100	05
6		EQ Trim	00~64	0~100	06
7		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	07
8		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	08
9		Wet/Dry	00~64	Dry~Wet	09
10		Wet/Dry: Src	00~1F	Off~Tempo(*1)	10
11		Wet/Dry: Amt	9C~64	-100~+100	11

58: P4EQ - Exciter

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Band1: Gain [dB]	EE~12	-18.0~+18.0dB	03
	1~0	Band1: Q	00~0F	0.5~10	02
1	7~6				
	5~0	Band1 Cutoff [Hz]	00~31	20~1.00kHz	01
2	7~2	Band2: Gain [dB]	EE~12	-18.0~+18.0dB	06
	1~0	Band2: Q	00~0F	0.5~10	05
3	7~6				
	5~0	Band2 Cutoff [Hz]	00~3B	50~5.00kHz	04
4	7~2	Band3: Gain [dB]	EE~12	-18.0~+18.0dB	09
	1~0	Band3: Q	00~0F	0.5~10	08
5	7~6				
	5~0	Band3 Cutoff[Hz]	01~3F	300~10.00kHz	07
6	7~2	Band4: Gain [dB]	EE~12	-18.0~+18.0dB	12
	1~0	Band4: Q	00~0F	0.5~10	11
7	7~6				
	5~0	Band4 Cutoff [Hz]	00~37	500~20.00kHz	10
10		Trim	00~64	0~100	00
11		Emphatic Point	00~8C	0~70	14
12		Wet/Dry: Src	00~1F	Off~Tempo(*1)	16
13		Wet/Dry	00~64	Dry~Wet	15
14		Exciter Blend	9C~64	-100~+100	13
15		Wet/Dry: Amt	9C~64	-100~+100	17

59: P4EQ - Wah

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Band1: Gain [dB]	EE~12	-18.0~+18.0dB	03
	1~0	Band1: Q	00~0F	0.5~10	02
1	7~6				
	5~0	Band1 Cutoff [Hz]	00~31	20~1.00kHz	01
2	7~2	Band2: Gain [dB]	EE~12	-18.0~+18.0dB	06
	1~0	Band2: Q	00~0F	0.5~10	05
3	7~6				
	5~0	Band2 Cutoff [Hz]	00~3B	50~5.00kHz	04
4	7~2	Band3: Gain [dB]	EE~12	-18.0~+18.0dB	09
	1~0	Band3: Q	00~0F	0.5~10	08
5	7~6				
	5~0	Band3 Cutoff[Hz]	01~3F	300~10.00kHz	07
6	7~2	Band4: Gain [dB]	EE~12	-18.0~+18.0dB	12
	1~0	Band4: Q	00~0F	0.5~10	11
7	7~6				
	5~0	Band4 Cutoff [Hz]	00~37	500~20.00kHz	10
8	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	22
	2~0	Sweep Mode: Src	00~1F	Off~Tempo(*1)	16
9	7~6				
	5~0	Frequency Bottom	00~4D	0~100	13
10		Trim	00~64	0~100	00
11	7~6	Sweep Mode	00~02	Auto~LFO	15
	5~0	Frequency Top	00~4D	0~100	14
12		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	17
13	7~1	Wet/Dry	00~64	Dry~Wet	21
	0	Routing	00~01	PEQ->WAH~WAH~PEQ	20
14	7	LPF	00~01	Off~On	19
	6~0	Resonance	00~64	0~100	18
15		Wet/Dry: Amt	9C~64	-100~+100	23

60: P4EQ - Cho/Flng

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Band1: Gain [dB]	EE~12	-18.0~+18.0dB	03
	1~0	Band1: Q	00~0F	0.5~10	02
1	7~6				
	5~0	Band1 Cutoff [Hz]	00~31	20~1.00kHz	01
2	7~2	Band2: Gain [dB]	EE~12	-18.0~+18.0dB	06
	1~0	Band2: Q	00~0F	0.5~10	05
3	7~6				
	5~0	Band2 Cutoff [Hz]	00~3B	50~5.00kHz	04
4	7~2	Band3: Gain [dB]	EE~12	-18.0~+18.0dB	09
	1~0	Band3: Q	00~0F	0.5~10	08
5	7~6				
	5~0	Band3 Cutoff[Hz]	01~3F	300~10kHz	07
6	7~2	Band4: Gain [dB]	EE~12	-18.0~+18.0dB	12
	1~0	Band4: Q	00~0F	0.5~10	11
7	7~6				
	5~0	Band4 Cutoff [Hz]	00~37	500~20.00kHz	10
8	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	21
	2~0	Feedback	9C~64	-100~+100	17
9	7~4				
	3~0	Depth	00~64	0~100	16
10	7~6				
	5~0	Delay Time [msec]	00~73	0.0~50.0msec	13
11	7				
	6~0	Trim	00~64	0~100	00

12	7~1	Cho/Flg Wet/Dry	CE~32	-Wet~Wet	18
	0	LFO Waveform	00~01	Triangle~Sine	14
13	6~0	Wet/Dry	00~64	Dry~Wet	20
	0	Output Mode	00~01	Normal~Wet invert	19
14		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	15
15		Wet/Dry: Amt	9C~64	-100~+100	22

61: P4EQ - Phaser

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Band1: Gain [dB]	EE~12	-18.0~+18.0dB	03
	1~0	Band1: Q	00~0F	0.5~10	02
1	7~6				
	5~0	Band1 Cutoff [Hz]	00~31	20~1.00kHz	01
2	7~2	Band2: Gain [dB]	EE~12	-18.0~+18.0dB	06
	1~0	Band2: Q	00~0F	0.5~10	05
3	7~6				
	5~0	Band2 Cutoff [Hz]	00~3B	50~5.00kHz	04
4	7~2	Band3: Gain [dB]	EE~12	-18.0~+18.0dB	09
	1~0	Band3: Q	00~0F	0.5~10	08
5	7~6				
	5~0	Band3 Cutoff[Hz]	01~3F	300~10kHz	07
6	7~2	Band4: Gain [dB]	EE~12	-18.0~+18.0dB	12
	1~0	Band4: Q	00~0F	0.5~10	11
7	7~6				
	5~0	Band4 Cutoff [Hz]	00~37	500~20.00kHz	10
8	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	21
	2~0	Resonance	9C~64	-100~+100	17
9	7~4				
	3~0	Depth	00~64	0~100	16
10	7~6				
	5~0	Manual	00~64	0~100	15
11	7				
	6~0	Trim	00~64	0~100	00
12	7~1	Phaser Wet/Dry	CE~32	-Wet~Wet	18
	0	LFO Waveform	00~01	Triangle~Sine	13
13	7~1	Wet/Dry	00~64	Dry~Wet	20
	0	Output Mode	00~01	Normal~Wet invert	19
14		LFO Frequency [Hz]	01~F0	0.02~20.00Hz	14
15		Wet/Dry: Amt	9C~64	-100~+100	22

62: P4EQ - Mt. Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Band1: Gain [dB]	EE~12	-18.0~+18.0dB	03
	1~0	Band1: Q	00~0F	0.5~10	02
1	7~6				
	5~0	Band1 Cutoff [Hz]	00~31	20~1.00kHz	01
2	7~2	Band2: Gain [dB]	EE~12	-18.0~+18.0dB	06
	1~0	Band2: Q	00~0F	0.5~10	05
3	7~6				
	5~0	Band2 Cutoff [Hz]	00~3B	50~5.00kHz	04
4	7~2	Band3: Gain [dB]	EE~12	-18.0~+18.0dB	09
	1~0	Band3: Q	00~0F	0.5~10	08
5	7~6				
	5~0	Band3 Cutoff[Hz]	01~3F	300~10kHz	07
6	7~2	Band4: Gain [dB]	EE~12	-18.0~+18.0dB	12
	1~0	Band4: Q	00~0F	0.5~10	11
7	7~6				
	5~0	Band4 Cutoff [Hz]	00~37	500~20.00kHz	10
8	7~1	Feedback	CE~32	-100~+100	16
	0	Tap1 Level	00~64	0~100	15
9	7~4				
	3~0	Tap2 Delay Time [msec]	00~7B	0~680msec	14
10	7~5				
	4~0	Tap1 Delay Time [msec]	00~7B	0~680msec	13
11	7~6				
	5~0	Trim	00~64	0~100	00
12		Wet/Dry: Amt	9C~64	-100~+100	21
13	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	20
	2~0	Wet/Dry	00~64	Dry~Wet	19
14	7~4				
	3~0	Mt.Delay Wet/Dry	00~32	Dry~Wet	18
15	7~6				
	5~0	High Damp [%]	00~32	0~100%	17

63: Comp - Wah

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	12
	2~0	LFO Frequency [Hz]	01~E6	0.02~20.00Hz	07
1	7~3				

2	2~0	Sweep Mode: Src	00~1F	Off~Tempo(*1)	06
	7~6				
3	5~0	Attack	01~64	1~100	01
	7				
4	6~0	Sensitivity	01~64	1~100	00
	7~6	Sweep Mode	00~02	Auto~LFO	05
5	5~0	Frequency Bottom	00~64	0~100	03
	7				
	6~0	CMP: Output Level	00~64	0~100	02
8		EQ Trim	00~64	0~100	14
9		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	15
10		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	16
12	6~0	Resonance	00~64	0~100	08
13	7~1	Wet/Dry	00~64	Dry~Wet	11
	0	Routing	00~01	CMP->WAH~WAH~CMP	10
14	7	Low Pass Filter	00~01	Off~On	09
	6~0	Frequency Top	00~64	0~100	04
15		Wet/Dry: Amt	9C~64	-100~+100	13

64: Comp - Amp Sim

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Wet/Dry: Amt	9C~64	-100~+100	07
1	7	Routing	00~01	CMP->AMP~AMP~CMP	04
	6~0	CMP: Output Level	00~64	0~100	02
2	7~6	Amplifier Type	00~02	SS~6L6	03
	5~0	Attack	01~64	1~100	01
3	7				
	6~0	Sensitivity	01~64	1~100	00
6	3~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	06
7	7				
	6~0	Wet/Dry	00~64	Dry~Wet	05
8		EQ Trim	00~64	0~100	08
9		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	09
10		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	10

65: Comp - OD/HiGain

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~1	Wet/Dry	00~64	Dry~Wet	15
	0	Low Cutoff: Gain [dB]	EE~12	-18.0~+18.0dB	07
1	7~3				
	2~0	Low Cutoff[Hz]	00~31	20~1.00kHz	06
2	7~5				
	4~0	OD: Output Level	00~32	0~50	05
3	7				
	6~0	Drive	00~64	0~100	04
4	7~2	Mid1: Gain [dB]	EE~12	-18.0~+18.0dB	10
	1~0	Mid1: Q	00~3C	0.5~10	09
5	7~6				
	5~0	Mid1 Cutoff[Hz]	01~3F	300~10.00kHz	08
6	7~2	Mid2: Gain [dB]	EE~12	-18.0~+18.0dB	13
	1~0	Mid2: Q	00~3C	0.5~10	12
7	7~6				
	5~0	Mid2 Cutoff[Hz]	01~3F	500~20.00kHz	11
8	3~0	OD: Output Level: Amt	CE~32	-50~+50	19
9	7~5				
	4~0	OD: Output Level: Src	00~1F	Off~Tempo(*1)	18
11	6~0	Sensitivity	01~64	1~100	00
12	4~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	16
13	7	Drive Mode	00~01	Overdrive~Hi-Gain	03
	6~0	Attack	01~64	1~100	01
14	7	Routing	00~01	CMP->OD~OD->CMP	14
	6~0	CMP: Output Level	00~32	0~50	02
15		Wet/Dry: Amt	9C~64	-100~+100	17

66: Comp - Param4EQ

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Band1: Gain [dB]	EE~12	-18.0~+18.0dB	06
	1~0	Band1: Q	00~0F	0.5~10	05
1	7~6				
	5~0	Band1 Cutoff [Hz]	00~31	20~1.00kHz	04
2	7~2	Band2: Gain [dB]	EE~12	-18.0~+18.0dB	09
	1~0	Band2: Q	00~0F	0.5~10	08
3	7~6				
	5~0	Band2 Cutoff [Hz]	00~3B	50~5.00kHz	07
4	7~2	Band3: Gain [dB]	EE~12	-18.0~+18.0dB	12
	1~0	Band3: Q	00~0F	0.5~10	11
5	7~6				
	5~0	Band3 Cutoff[Hz]	01~3F	300~10.00kHz	10
6	7~2	Band4: Gain [dB]	EE~12	-18.0~+18.0dB	15

7	1~0	Band4: Q	00~0F	0.5~10	14
	7~6				
	5~0	Band4 Cutoff [Hz]	00~37	500~20.00kHz	13
9	4~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	18
10		Wet/Dry	00~64	Dry~Wet	17
11	6~0	Sensitivity	01~64	1~100	00
12	6~0	Trim	00~64	0~100	03
13	6~0	Attack	01~64	1~100	01
14	7	Routing	00~01	CMP->PEQ~PEQ->CMP	16
	6~0	CMP: Output Level	00~64	0~100	02
15		Wet/Dry: Amt	9C~64	-100~+100	19

67: Comp - Cho/Flng

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	12
	3~0	Depth	00~64	0~100	06
1	7~6				
	5~0	CMP: Output Level	00~64	0~100	02
2	7~6				
	5~0	Attack	01~64	1~100	01
3	7				
	6~0	Sensitivity	01~64	1~100	00
4	7	LFO Waveform	00~01	Triangle~Sine	04
	6~0	Delay Time [msec]	00~73	0.0~50.0msec	03
5	7	Output Mode	00~01	Normal~Wet invert	09
	6~0	Feedback	CE~32	-100~+100	07
6	7	Routing	00~01	CMP->FLNG~FLNG->CMP	10
	6~0	Cho/Flg Wet/Dry	CE~32	-Wet~Wet	08
7	6~0	Wet/Dry	00~64	Dry~Wet	11
8	6~0	Trim	00~64	0~100	14
9		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	15
10		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	16
14		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	05
15		Wet/Dry: Amt	9C~64	-100~+100	13

68: Comp - Phaser

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	12
	3~0	Depth	00~64	0~100	06
1	7~6				
	5~0	CMP: Output Level	00~64	0~100	02
2	7~6				
	5~0	Attack	01~64	1~100	01
3	7				
	6~0	Sensitivity	01~64	1~100	00
4	7	LFO Waveform	00~01	Triangle~Sine	03
	6~0	Manual	00~64	0~100	05
5	7	Output Mode	00~01	Normal~Wet invert	09
	6~0	Resonance	CE~32	-100~+100	07
6	7	Routing	00~01	CMP->PHS~PHS->CMP	10
	6~0	Cho/Flg Wet/Dry	CE~32	-Wet~Wet	08
7	6~0	Wet/Dry	00~64	Dry~Wet	11
8	6~0	Trim	00~64	0~100	14
9		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	15
10		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	16
14		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	04
15		Wet/Dry: Amt	9C~64	-100~+100	13

69: Comp - Mt.Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	2~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	11
1	7~6				
	5	Routing	00~01	CMP->DLY~DLY->CMP	09
	4~0	CMP: Output Level	00~64	0~100	02
2	7~6				
	5~0	Attack	01~64	1~100	01
3	7				
	6~0	Sensitivity	01~64	1~100	00
4	6~0	Tap1 Level	00~64	0~100	05
5	6~0	High Damp [%]	00~32	0~100%	07
6	6~0	Mt.Delay Wet/Dry	00~64	Dry~Wet	08
7	6~0	Wet/Dry	00~64	Dry~Wet	10
8	6~0	EQ Trim	00~64	0~100	13
9		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	14
10		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	15
12		Tap1 Time [msec]	00~8A	0~680msec	03
13		Tap2 Time [msec]	00~8A	0~680msec	04
14		Feedback (Tap2)	9C~64	-100~+100	06
15		Wet/Dry: Amt	9C~64	-100~+100	12

70: Limiter - P4EQ

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Band1: Gain [dB]	EE~12	-18.0~+18.0dB	08
	1~0	Band1: Q	00~0F	0.5~10	07
1	7~6				
	5~0	Band1 Cutoff [Hz]	00~31	20~1.00kHz	06
2	7~2	Band2: Gain [dB]	EE~12	-18.0~+18.0dB	11
	1~0	Band2: Q	00~0F	0.5~10	10
3	7~6				
	5~0	Band2 Cutoff [Hz]	00~3B	50~5.00kHz	09
4	7~2	Band3: Gain [dB]	EE~12	-18.0~+18.0dB	14
	1~0	Band3: Q	00~0F	0.5~10	13
5	7~6				
	5~0	Band3 Cutoff [Hz]	01~3F	300~10.00kHz	12
6	7~2	Band4: Gain [dB]	EE~12	-18.0~+18.0dB	17
	1~0	Band4: Q	00~0F	0.5~10	16
7	7~6				
	5~0	Band4 Cutoff [Hz]	00~37	500~20.00kHz	15
8	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	20
	2~0	EQ Trim	00~64	0~100	05
9	7~4				
	3~0	Release	01~64	1~100	03
10	7~5				
	4~0	Attack	01~64	1~100	02
11	7~6				
	5~0	Gain Adjust [dB]	E0~1F	-inf~+24dB	04
12	7~1	Wet/Dry	00~64	Dry~Wet	19
	0	Routing	00~01	LMT->PEQ~PEQ->LMT	18
13		Ratio	00~83	1.0:1~inf:1	00
14		Wet/Dry: Amt	9C~64	-100~+100	21
15	6~0	Threshold [dB]	D8~00	-40~0dB	01

71: Limiter - Cho/Flng

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	14
	2~0	Gain Adjust [dB]	E0~1F	-inf~+24dB	04
1	7~5				
	4~0	Release	01~64	1~100	03
2	7~6				
	5~0	Attack	01~64	1~100	02
3	7				
	6~0	Threshold [dB]	D8~00	-40~0dB	01
4	7	LFO Waveform	00~01	Triangle~Sine	06
	6~0	Delay Time [msec]	00~8C	0.0~50.0msec	05
5	7	Output Mode	00~01	Normal~Wet invert	11
	6~0	Feedback	CE~32	-100~+100	09
6	7	Routing	00~01	LMT->FLNG~FLNG->LMT	12
	6~0	Cho/Flg Wet/Dry	CE~32	-Wet~Wet	10
7	6~0	Wet/Dry	00~64	Dry~Wet	13
9		EQ Trim	00~64	0~100	16
10		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	17
11		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	18
12	5~0	Depth	00~32	0~100	08
13		Ratio	00~83	1.0:1~inf:1	00
14		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	07
15		Wet/Dry: Amt	9C~64	-100~+100	15

72: Limiter - Phaser

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	14
	2~0	Gain Adjust [dB]	E0~1F	-inf~+24dB	04
1	7~5				
	4~0	Release	01~64	1~100	03
2	7~6				
	5~0	Attack	01~64	1~100	02
3	7				
	6~0	Threshold [dB]	D8~00	-40~0dB	01
4	7	LFO Waveform	00~01	Triangle~Sine	05
	6~0	Manual	00~64	0~100	07
5	7	Output Mode	00~01	Normal~Wet invert	11
	6~0	Resonance	CE~32	-100~+100	09
6	7	Routing	00~01	LMT->PHS~PHS->LMT	12
	6~0	Phaser Wet/Dry	CE~32	-Wet~Wet	10
7	6~0	Wet/Dry	00~64	Dry~Wet	13
12	5~0	Depth	00~32	0~100	08
13		Ratio	00~83	1.0:1~inf:1	00
14		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	06
15		Wet/Dry: Amt	9C~64	-100~+100	15

73: Limiter - Mt. Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	13
	2~0	Gain Adjust [dB]	E0~1F	-inf~+24dB	04
1	7~5	Release	01~64	1~100	03
2	4~0	Attack	01~64	1~100	02
3	7~6	Threshold [dB]	D8~00	-40~0dB	01
	5~0	Tap1 Level	00~64	0~100	07
7	6~0	High Damp [%]	00~32	0~100%	09
8	6~0	Mt.Delay Wet/Dry	00~64	Dry~Wet	10
9	7	Routing	00~01	LMT->DLY~DLY->LMT	11
10	6~0	Wet/Dry	00~64	Dry~Wet	12
11		Ratio	00~83	1.0:1~inf:1	00
12		Tap1 Time [msec]	00~8A	0~680msec	05
13		Tap2 Time [msec]	00~8A	0~680msec	06
14		Feedback (Tap2)	CE~32	-100~+100	08
15		Wet/Dry: Amt	9C~64	-100~+100	14

74: Exciter - Comp

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Exciter Blend	9C~64	-100~+100	00
1		Emphatic Point	00~8C	0~70	01
2		Sensitivity	01~64	1~100	02
3		Attack	01~64	1~100	03
4		Output Level	00~64	0~100	04
8		EQ Trim	00~64	0~100	09
9		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	10
10		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	11
13		Wet/Dry: Src	00~19	Off~Tempo(*1)	07
14	7~1	Wet/Dry	00~64	Dry~Wet	06
	0	Routing	00~01	XCT->CMP~CMP->XCT	05
15		Wet/Dry: Amt	9C~64	-100~+100	08

75: Exciter - Limiter

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	09
	2~0	Gain Adjust [dB]	E0~1F	-inf~+24dB	06
1	7~5	Release	01~64	1~100	05
2	4~0	Attack	01~64	1~100	04
3	7~6	Threshold [dB]	D8~00	-40~0dB	03
	5~0	Exciter Blend	9C~64	-100~+100	00
4		Emphatic Point	00~8C	0~70	01
5		Ratio	00~83	1.0:1~inf:1	02
6		Wet/Dry: Amt	9C~64	-100~+100	10
7	7~1	Wet/Dry	00~64	Dry~Wet	08
	0	Routing	00~01	XCT->LMT~LMT->XCT	07
9		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	12
10		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	13
11		EQ Trim	00~64	0~100	11

76: Exciter - Cho/Flng

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	10
	2~0	Cho/Flng Wet/Dry	CE~32	-Wet~Wet	07
1	7~4	Feedback	CE~32	-100~+100	06
2	3~0	Depth	00~32	0~100	05
3	7~6	Delay Time [msec]	00~73	0.0~50.0msec	02
4		Exciter Blend	9C~64	-100~+100	00
5		Emphatic Point	00~8C	0~70	01
6	7~1	Wet/Dry	00~64	Dry~Wet	09
	0	LFO Waveform	00~01	Triangle~Sine	03
7		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	04
8		Wet/Dry: Amt	9C~64	-100~+100	11
9	7~1	EQ Trim	00~64	0~100	12
	0	Output Mode	00~01	Normal~Wet invert	08

10		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	13
11		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	14

77: Exciter - Phaser

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	10
	2~0	Phaser Wet/Dry	CE~32	-Wet~Wet	07
1	7~4				
	3~0	Resonance	CE~32	-100~+100	06
2	7~5				
	4~0	Depth	00~32	0~100	05
3	7				
	6~0	Manual	00~64	0~100	04
4		Exciter Blend	9C~64	-100~+100	00
5		Emphatic Point	00~8C	0~70	01
6	7~1	Wet/Dry	00~64	Dry~Wet	09
	0	LFO Waveform	00~01	Triangle~Sine	02
7		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	03
8		Wet/Dry: Amt	9C~64	-100~+100	11
9	7~1	EQ Trim	00~64	0~100	12
	0	Output Mode	00~01	Normal~Wet invert	08
10		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	13
11		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	14

78: Exciter - Mt.Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	6~0	Tap1 Level	00~64	0~100	04
1	6~0	High Damp [%]	00~64	0~100%	06
2	6~0	Mt.Delay Wet/Dry	00~64	Dry~Wet	07
3	6~0	Wet/Dry	00~64	Dry~Wet	08
4	6~2	Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	13
	1~0	Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	12
5	7~5				
	4~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	09
6		EQ Trim	00~64	0~100	11
10		Exciter Blend	9C~64	-100~+100	00
11		Emphatic Point	00~8C	0~70	01
12		Tap1 Time [msec]	00~8A	0~680msec	02
13		Tap2 Time [msec]	00~8A	0~680msec	03
14		Feedback (Tap2)	9C~64	-100~+100	05
15		Wet/Dry: Amt	9C~64	-100~+100	10

79: OD/HG - Amp Sim

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~1	Wet/Dry	00~64	Dry~Wet	13
	0	Low Cutoff: Gain [dB]	EE~12	-18.0~+18.0dB	04
1	7~3				
	2~0	Low Cutoff[Hz]	00~31	20~1.00kHz	03
2	7~5				
	4~0	OD: Output Level	00~32	0~50	02
3	7				
	6~0	Drive	00~64	0~100	01
4	7~2	Mid1: Gain [dB]	EE~12	-18.0~+18.0dB	07
	1~0	Mid1: Q	00~0F	0.5~10	06
5	7~6				
	5~0	Mid1 Cutoff[Hz]	01~3F	300~10.00kHz	05
6	7~2	Mid2: Gain [dB]	EE~12	-18.0~+18.0dB	10
	1~0	Mid2: Q	00~0F	0.5~10	09
7	7~6				
	5~0	Mid2 Cutoff[Hz]	01~37	300~10.00kHz	08
12	4~0	OD: Output Level: Src	00~1F	Off~Tempo(*1)	16
13	7~1	OD: Output Level: Amt	CE~32	-50~+50	17
	0	Drive Mode	00~01	Overdrive~Hi-Gain	00
14	7~6	Amplifier Type	00~02	SS~6L6	11
	5	Routing	00~01	OD->AMP~AMP->OD	12
	4~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	14
15		Wet/Dry: Amt	9C~64	-100~+100	15

80: OD/HG - Cho/FIng

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Mid1 Cutoff[Hz]	01~3F	300~10.00kHz	05
	1~0	Low Cutoff: Gain [dB]	EE~12	-18.0~+18.0dB	04
1	7~4				
	3~0	Low Cutoff[Hz]	00~31	20~1.00kHz	03
2	7~6				

3	5~0	OD: Output Level	00~32	0~50	02
	7~1	Drive	00~64	0~100	01
	0	Drive Mode	00~01	Overdrive~Hi-Gain	00
4	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	20
	2~0	Cho/Flng Wet/Dry	CE~32	-Wet~Wet	16
5	7~4				
	3~0	Feedback	CE~32	-100~+100	15
6	7~5				
	4~0	Delay Time [msec]	00~73	0.0~50.0msec	11
7	7~6				
	5~0	Mid2: Gain [dB]	EE~12	-18.0~+18.0dB	10
8	7~2	Mid2 Cutoff[Hz]	01~3F	300~10.00kHz	08
	1~0	Mid1: Gain [dB]	EE~12	-18.0~+18.0dB	07
9	7~4				
	3~0	Mid1: Q	00~0F	0.5~10	06
10	7~1	Wet/Dry	00~64	Dry~Wet	19
	0	LFO Waveform	00~01	Triangle~Sine	12
11	7	Routing	00~01	OD->FLNG~FLNG->OD	18
	6	Output Mode	00~01	Normal~Wet invert	17
	5~0	Depth	00~32	0~100	14
12	7~1	OD: Output Level: Amt	CE~32	-50~+50	23
	0	OD: Output Level: Src	00~1F	Off~Tempo(*1)	22
13	7~4				
	3~0	Mid2: Q	00~0F	0.5~10	09
14		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	13
15		Wet/Dry: Amt	9C~64	-100~+100	21

81: OD/HG - Phaser

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Mid1 Cutoff[Hz]	01~3F	300~10.00kHz	05
	1~0	Low Cutoff: Gain [dB]	EE~12	-18.0~+18.0dB	04
1	7~4				
	3~0	Low Cutoff[Hz]	00~31	20~1.00kHz	03
2	7~6				
	5~0	OD: Output Level	00~32	0~50	02
3	7~1	Drive	00~64	0~100	01
	0	Drive Mode	00~01	Overdrive~Hi-Gain	00
4	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	20
	2~0	Phaser Wet/Dry	CE~32	-Wet~Wet	16
5	7~4				
	3~0	Resonance	CE~32	-100~+100	15
6	7~5				
	4~0	Manual	00~64	0~100	13
7	7~6				
	5~0	Mid2: Gain [dB]	EE~12	-18.0~+18.0dB	10
8	7~2	Mid2 Cutoff[Hz]	01~37	300~10kHz	08
	1~0	Mid1: Gain [dB]	EE~12	-18.0~+18.0dB	07
9	7~4				
	3~0	Mid1: Q	00~0F	0.5~10	06
10	7~1	Wet/Dry	00~64	Dry~Wet	19
	0	LFO Waveform	00~01	Triangle~Sine	11
11	7	Routing	00~01	OD->PHS~PHS->OD	18
	6	Output Mode	00~01	Normal~Wet invert	17
	5~0	Depth	00~32	0~100	14
12	7~1	OD: Output Level: Amt	CE~32	-50~+50	23
	0	OD: Output Level: Src	00~1F	Off~Tempo(*1)	22
13	7~4				
	3~0	Mid2: Q	00~0F	0.5~10	09
14		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	12
15		Wet/Dry: Amt	9C~64	-100~+100	21

82: OD/HG - Mt. Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Mid1 Cutoff[Hz]	01~3F	300~10.00kHz	05
	1~0	Low Cutoff: Gain [dB]	EE~12	-18.0~+18.0dB	04
1	7~4				
	3~0	Low Cutoff[Hz]	00~31	20~1.00kHz	03
2	7~6				
	5~0	OD: Output Level	00~32	0~50	02
3	7~1	Drive	00~64	0~100	01
	0	Drive Mode	00~01	Overdrive~Hi-Gain	00
4	7~1	Feedback (Tap2)	CE~32	-100~+100	14
	0	Tap1 Level	00~64	0~100	13
5	7~4				
	3~0	Tap2 Delay Time [msec]	00~7B	0~680msec	12
6	7~5				
	4~0	Tap1 Delay Time [msec]	00~7B	0~680msec	11
7	7~6				
	5~0	Mid2: Gain [dB]	EE~12	-18.0~+18.0dB	10
8	7~2	Mid2 Cutoff[Hz]	01~37	300~10.00kHz	08
	1~0	Mid1: Gain [dB]	EE~12	-18.0~+18.0dB	07
9	7~4				
	3~0	Mid1: Q	00~0F	0.5~10	06

10	7~3	OD: Output Level: Src	00~1F	Off~Tempo(*1)	20
	2~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	18
11	7~6				
	5~0	Mt.Delay Wet/Dry	00~32	Dry~Wet	16
12	7~1	OD: Output Level: Amt	CE~32	-50~+50	21
	0	Wet/Dry: Amt	9C~64	-100~+100	19
13	7~1				
	0	Wet/Dry	00~64	Dry~Wet	17
14	7~2				
	1~0	High Damp [%]	00~32	0~100%	15
15	7~4				
	3~0	Mid2: Q	00~0F	0.5~10	09

83: Wah - Amp Sim

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	10
	2~0	LFO Frequency [Hz]	01~E6	0.02~20.00Hz	04
1	7~3				
	2~0	Sweep Mode: Src	00~1F	Off~Tempo(*1)	03
2	7~6				
	5~0	Frequency Top	00~64	0~100	01
3	7				
	6~0	Frequency Bottom	00~64	0~100	00
12	3~2	Amplifier Type	00~02	SS~6L6	07
	1~0	Sweep Mode	00~02	Auto~LFO	02
13	7	Low Pass Filter	00~01	Off~On	06
	6~0	Resonance	00~64	0~100	05
14	7~1	Wet/Dry	00~64	Dry~Wet	09
	0	Routing	00~01	WAH->AMP~AMP~WAH	08
15		Wet/Dry: Amt	9C~64	-100~+100	11

84: Decimator - Amp

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	08
	2~0	Wet/Dry	00~64	Dry~Wet	07
1	7~4				
	3~0	DECI: Output Level	00~64	0~100	04
2	7~5				
	4~0	Resolution	04~18	4~24	03
3	7				
	6~0	High Damp [%]	00~64	0~100%	02
4	4	Routing	00~01	DECI->AMP~AMP~DECI	06
	3~2	Amplifier Type	00~02	SS~6L6	05
	1~0	Sampling Freq [Hz]	0A~01E0	1.00~48.00kHz	01
5	7~1				
	0	Pre LPF	00~01	Off~On	00
15		Wet/Dry: Amt	9C~64	-100~+100	09

85: Decimator - Comp

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	10
	2~0	Sensitivity	01~64	1~100	05
1	7~4				
	3~0	DECI: Output Level	00~64	0~100	04
2	7~5				
	4~0	Resolution	04~18	4~24	03
3	7				
	6~0	High Damp [%]	00~64	0~100%	02
4	7~1	Attack	01~64	1~100	06
	0	Sampling Freq [Hz]	0A~01E0	1.00~48.00kHz	01
5					
6	7~1	CMP: Output Level	00~64	0~100	07
	0	Pre LPF	00~01	Off~On	00
7	7~1	Wet/Dry	00~64	Dry~Wet	09
	0	Routing	00~01	DECI->CMP~CMP~DECI	08
15		Wet/Dry: Amt	9C~64	-100~+100	11

86: Amp Sim - Tremolo

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	03
1	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	06
	2~0	Wet/Dry	00~64	Dry~Wet	05
2	7~4				
	3~0	Depth	00~64	0~100	04
3	7~5				

	4~2	LFO Waveform	00~04	Triangle~Down	01
	1~0	Amplifier Type	00~02	SS~6L6	00
14		LFO Shape	9C~64	-100~+100	02
15		Wet/Dry: Amt	9C~64	-100~+100	07

87: Cho/Flng - Mt.Dly

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	13
	2~0	Tap1 Level	00~64	0~100	08
1	7~4				
	3~0	Cho/Flng Wet/Dry	CE~32	-Wet~Wet	05
2	7~5				
	4~0	Feedback	CE~32	-100~+100	04
3	7~6				
	5~0	Depth	00~32	0~100	03
4		EQ Trim	00~64	0~100	15
5		Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	16
6		Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	17
7	6~0	Wet/Dry	00~64	Dry~Wet	12
8	6~0	High Damp [%]	00~64	0~100%	10
9	6~0	Mt.Delay Wet/Dry	00~64	Dry~Wet	11
10	7	LFO Waveform	00~01	Triangle~Sine	01
	6~0	Delay Time [msec]	00~73	0.0~50.0msec	00
11		LFO Frequency [Hz]	01~E6	0.02~20.00Hz	02
12		Tap1 Time [msec]	00~8A	0~680msec	06
13		Tap2 Time [msec]	00~8A	0~680msec	07
14		Feedback (Tap2)	9C~64	-100~+100	09
15		Wet/Dry: Amt	9C~64	-100~+100	14

88: Phaser - Cho/Flng

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~3	Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	17
	2~0	Phaser Wet/Dry	CE~32	-Wet~Wet	05
1	7~4				
	3~0	Resonance	CE~32	-100~+100	04
2	7~5				
	4~0	Phaser: Depth	00~64	0~100	03
3	7				
	6~0	Manual	00~64	0~100	02
4	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	14
	2~0	Cho/Flng Wet/Dry	CE~32	-Wet~Wet	11
5	7~4				
	3~0	Feedback	CE~32	-100~+100	10
6	7~5				
	4~0	Flng: Depth	00~64	0~100	09
7	7				
	6~0	Delay Time [msec]	00~73	0.0~50.0msec	06
10	5~1	Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	18
	0	Output Mode	00~01	Normal~Wet invert	12
11	7~1	EQ Trim	00~64	0~100	16
	0	Flng: LFO Waveform	00~01	Triangle~Sine	07
12	7~1	Wet/Dry	00~64	Dry~Wet	13
	0	Phaser: LFO Waveform	00~01	Triangle~Sine	00
13		Flng: LFO Frequency [Hz]	01~E6	0.02~20.00Hz	08
14		Phaser: LFO Frequency [Hz]	01~E6	0.02~20.00Hz	01
15		Wet/Dry: Amt	9C~64	-100~+100	15

89: Reverb - Gate

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~1	Pre HEQ Gain [dB]	F1~0F	-15.0~+15.0dB	16
	0	Envelope Select: Src	00~04	Off~Gate2+Dmpr(*2)	05
1	7~4				
	3	Envelope Select	00~01	D-mod~Input	04
	2~0	Reverb Balance	00~64	Dry~Wet	03
2	7~6				
	5~0	High Damp [%]	00~64	0~100%	01
3	7				
	6~0	Reverb Time [sec]	01~64	0.1~10.0sec	00
4	7~3	Pre LEQ Gain [dB]	F1~0F	-15.0~+15.0dB	15
	2~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	12
5	7~6				
	5~0	Release	01~64	1~100	10
6	7				
	6~0	Attack	01~64	1~100	09
7	7~1	Threshold	00~64	0~100	08
	0	Polarity	00~01	+~-	07
9	4~0	EQ Trim	00~64	0~100	14
10	7~6				
	5~0	Wet/Dry	00~64	Dry~Wet	11

11	7	Input Reverb Mix	00~64	Dry~Wet	06
14	6~0	Pre Delay [msec]	00~C8	0~200msec	02
15		Wet/Dry: Amt	9C~64	-100~+100	13

90: Piano Body/Damper

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Sound Body Depth	00~64	0~100	00
1		Damper Depth	00~64	0~100	01
2		Damper Depth: Src	00~1F	Off~Tempo(*1)	02
3		Tone	01~64	1~100	03
4		Mid Shape	00~20	0~36	04
5		Wet/Dry	00~64	Dry~Wet	05
6		Wet/Dry: Src	00~1F	Off~Tempo(*1)	06
7		Wet/Dry: Amt	9C~64	-100~+100	07
8		Tune	FB~05	-50~+50	08

91: St. Mltband Limiter

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Ratio	00~83	1.0:1~inf:1	00
1		Threshold [dB]	D8~00	-40~0dB	01
2		Attack	01~64	1~100	02
3		Release	01~64	1~100	03
4		Gain Adjust [dB]	D9~18	-inf~+24dB	07
5		Low Offset [dB]	D8~00	-40~0dB	04
6		Mid Offset [dB]	D8~00	-40~0dB	05
7		High Offset [dB]	D8~00	-40~0dB	06
8		Wet/Dry	00~64	Dry~Wet	10
9		Wet/Dry: Amt	9C~64	-100~+100	12
10		Wet/Dry: Src	00~1F	Off~Tempo(*1)	11
11		Gain Adjust: Src	00~1F	Off~Tempo(*1)	08
12		Gain Adjust: Amt	C1~3F	-63~+63	09

92: OD/HyperGain Wah

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Mid1 Cutoff[Hz]	01~3F	300~10.00kHz	13
	1~0	Low Cutoff: Gain [dB]	EE~12	-18.0~+18.0dB	12
1	7~4				
	3~0	Low Cutoff[Hz]	00~31	20~1.00kHz	11
2	7~6				
	5~0	Output Level	00~32	0~50	08
3	7				
	4~1	Pre Lowcut	00~0A	0~10	07
	0	Wah.Sw	00~01	Off~On	02
4	7~1	Wet/Dry	00~64	Dry~Wet	21
	0	Speaker Simulation	00~01	Off~On	20
5	7~2	Mid2: Q	00~3C	0.5~10	17
	1~0	Mid2 Cutoff[Hz]	00~37	500~20.00kHz	16
6	7~4				
	3~0	Mid1: Gain [dB]	EE~12	-18.0~+18.0dB	15
7	7~6				
	5~0	Mid1: Q	00~3C	0.5~10	14
8	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	22
	2~0	Mid2: Gain [dB]	EE~12	-18.0~+18.0dB	18
9	7~5				
	4~0	Output Level: Src	00~1F	Off~Tempo(*1)	09
10	7~3	Wah Sweep Range	F6~0A	-10~+10	03
	2~0	Wah Sweep Src	00~1F	Off~Tempo(*1)	04
11	7~6				
	5~1	Wah: Src	00~1F	Off~Tempo(*1)	01
	0	Wah	00~01	Off~On	00
12	6~1	Direct Mix	00~32	0~50	19
	0	Drive Mode	00~01	Overdrive~Hyper-Gain	05
13		Drive	01~64	1~100	06
14		Output Level: Amt	CE~32	-50~+50	10
15		Wet/Dry: Amt	9C~64	-100~+100	23

93: Vocoder

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	7~2	Low Gain [dB]	F4~0C	-12.0~+12.0dB	07
	1~0	Noise Level: Src	00~1F	Off~Tempo(*1)	05
1	7~5				
	4~0	Response	00~64	0~100	03
2	7~6				
	5~0	R (Modulator) Trim	00~64	0~100	01

3	7	L (Carrier) Trim	00~64	0~100	00
4	7~3	Vocoder/Carrier: Src	00~1F	Off~Tempo(*1)	11
	2~0	Vocoder/Carrier	00~64	Carrier~Vocoder	10
5	7~4				
	3~0	Modulator High Mix	00~64	0~100	09
6	7~5				
	4~0	High Gain [dB]	F4~0C	-12.0~+12.0dB	08
7	7				
	6~0	Noise Level	00~64	0~100	04
10	2~0	Formant Shift	FE~02	-2~+2	02
11	4~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	14
12	6~0	Wet/Dry	00~64	Dry~Wet	13
13		Noise Level: Amt	9C~64	-100~+100	06
14		Vocoder/Carrier: Amt	9C~64	-100~+100	12
15		Wet/Dry: Amt	9C~64	-100~+100	15

94: Multitap Cho/Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Tap1 Feedback	9C~64	-100~+100	22
1		Tap1 Feedback: Amt	9C~64	-100~+100	23
2		Wet/Dry: Amt	9C~64	-100~+100	03
3	7~6	Panning Preset	00~03	1~4	24
	5~0	LFO Frequency [Hz]	01~3F	0.02~13.00Hz	00
4	7~3	Tap1 Feedback: Src	00~1F	Off~Tempo(*1)	02
	2~0	Wet/Dry	00~64	Dry~Wet	01
5	7~4				
	3~0	Tap4: Depth	00~1E	0~30	15
6	7				
	6~2	Tap2: Depth	00~1E	0~30	14
	1~0	Tap5: Depth	00~1E	0~30	13
7	7~5				
	4~0	Tap3: Depth	00~1E	0~30	12
8	7~6	Tap4: Status	00~03	Always On~Off->On(dm)	21
	5~4	Tap2: Status	00~03	Always On~Off->On(dm)	20
	3~2	Tap5: Status	00~03	Always On~Off->On(dm)	19
	1~0	Tap3: Status	00~03	Always On~Off->On(dm)	18
9	7~3	Tap1: Depth	00~1E	0~30	11
	2~0	Tap6: Depth	00~1E	0~30	10
10	7~6				
	5~0	Tap4 (240) [msec]	00~7F	0~570msec	09
11	7				
	6~0	Tap2 (180) [msec]	00~7F	0~570msec	08
12	7~6	Tap1: Status	00~03	Always On~Off->On(dm)	17
	5~4	Tap6: Status	00~03	Always On~Off->On(dm)	16
	3~0	Tap5 (120) [msec]	00~7F	0~570msec	07
13	7~5				
	4~0	Tap3 (060) [msec]	00~7F	0~570msec	06
14	7~6				
	5~0	Tap1 (000) [msec]	00~7F	0~570msec	05
15	7				
	6~0	Tap6 (300) [msec]	00~7F	0~570msec	04

95: St. Pitch Shifter

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Input Level: Src	00~1F	Off~Tempo(*1)	00
1		Input Level Dmod [%]	9C~64	-100~+100	01
2		Pitch Shift [1/2tone]	E8~18	-24~+24	04
3		Pitch Shift: Src	00~1F	Off~Tempo(*1)	05
4		Pitch Shift: Amt	E8~18	-24~+24	06
5		Fine [cent]	9C~64	-100~+100cent	07
6		Fine: Amt	9C~64	-100~+100cent	08
7		Lch Delay [msec]	00~BE	0~1000msec	09
8		Rch Delay [msec]	00~BE	0~1000msec	10
9		Feedback	9C~64	-100~+100	12
10	7~1	High Damp [%]	00~64	0~100%	13
	0	Feedback Position	00~01	Pre~Post	11
11		Spread	9C~64	-100~+100	14
12		Wet/Dry	00~64	Dry~Wet	15
13		Wet/Dry: Src	00~1F	Off~Tempo(*1)	16
14		Wet/Dry: Amt	9C~64	-100~+100	17
15	7	L/R Pitch	00~01	Normal~Up/Down	03
	6~5	Mode	00~02	Slow~Fast	02

96: Rotary Speaker OD

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0	5~0	Overdrive Level	00~64	0~100	04
1	7				
	6~0	Overdrive Gain	00~64	0~100	03

2	7~3	Manual Speed Cntl	00~1F	Off~Tempo(*1)	13
	2	Speed Switch	00~01	Slow~Fast	10
	1	Mode Switch	00~01	Rotate~Stop	07
	0	Speaker Simulator	00~01	Off~On	06
3	7	Overdrive: Sw	00~01	Toggle~Moment	02
	6~0	Rotor Acceleration	00~64	0~100	14
4		Rotor Ratio	31~C8	Stop~2.00	15
5	7	Mode Switch: Sw	00~01	Toggle~Moment	09
	6~0	Horn Acceleration	00~64	0~100	16
6		Horn Ratio	31~C8	Stop~2.00	17
7	7	Speed Switch: Sw	00~01	Toggle~Moment	12
	6~0	Horn/Rotor Balance	00~64	0~100	18
8		Mic Distance	00~64	0~100	19
9		Mic Spread	00~64	0~100	20
10	7~4	Overdrive Tone	00~0F	0~15	05
	3~0	Wet/Dry	00~64	Dry~Wet	21
11	7~5				
	4~0	Overdrive: Src	00~1F	Off~Tempo(*1)	01
12	7	Overdrive	00~01	Off~On	00
	6~2	Wet/Dry: Src	00~1F	Off~Tempo(*1)	22
	1~0	Speed Switch: Src	00~1F	Off~Tempo(*1)	11
13	7~5				
	4~0	Mode Switch: Src	00~1F	Off~Tempo(*1)	08
15		Wet/Dry: Amt	9C~64	-100~+100	23

97: Early Reflections

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Type	00~03	Sharp~Reverse	00
1		ER Time [msec]	0A~AA	10~1600msec	01
2		Pre Delay [msec]	00~C8	0~200msec	02
3		EQ Trim	00~64	0~100	03
4		Pre LEQ Gain [dB]	E2~1E	-15.0~+15.0dB	04
5		Pre HEQ Gain [dB]	E2~1E	-15.0~+15.0dB	05
6		Wet/Dry	00~64	Dry~Wet	06
7		Wet/Dry: Src	00~1F	Off~Tempo(*1)	07
8		Wet/Dry: Amt	9C~64	-100~+100	08

98: L/C/R Long Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Feedback (C Delay)	9C~64	-100~+100	06
1		C Delay Time [msec]	00~0AAA	0~2730msec	02
2	7~4				
3	3~0	L Delay Time [msec]	00~0AAA	0~2730msec	00
4		Feedback: Amt	9C~64	-100~+100	08
5		R Delay Time [msec]	00~0AAA	0~2730msec	04
6	7~4				
	3~0	C Delay Level	00~32	0~50	03
7	7~6				
	5~0	L Delay Level	00~32	0~50	01
8		Input Level Dmod [%]	9C~64	-100~+100	12
9	7~2	Spread	00~32	0~50	13
	1~0	High Damp [%]	00~64	0~100%	09
10	7~3				
	2~0	Feedback: Src	00~1F	Off~Tempo(*1)	07
11	7~6				
	5~0	R Delay Level	00~32	0~50	05
12		Wet/Dry: Amt	9C~64	-100~+100	16
13	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	15
	2~0	Wet/Dry	00~64	Dry~Wet	14
14	7~4				
	3~0	Input Level: Src	00~1F	Off~Tempo(*1)	11
15	7				
	6~0	Low Damp [%]	00~64	0~100%	10

99: St/Cross Long Dly

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		L Feedback	9C~64	-100~+100	05
1		R Feedback	9C~64	-100~+100	06
2		L Feedback: Amt	9C~64	-100~+100	08
3		R Feedback: Amt	9C~64	-100~+100	09
4		Wet/Dry: Amt	9C~64	-100~+100	04
5		Input Level Dmod [%]	9C~64	-100~+100	13
6	3~0	Input Level Src	00~1F	Off~Tempo(*1)	12
7	7				
	6~0	Low Damp [%]	00~64	0~100%	11
8	7	Stereo/Cross	00~01	Stereo~Cross	15
	6~2	Feedback: Src	00~1F	Off~Tempo(*1)	07
	1~0	Wet/Dry: Src	00~1F	Off~Tempo(*1)	03
9	7~5				

10	4~0	High Damp [%]	00~64	0~100%	10
	7~6				
	5~0	Spread	CE~32	-50~+50	14
11	7				
	6~0	Wet/Dry	00~64	Dry~Wet	02
12	3~0	R Delay Time [msec]	00~03520	0.0~1360.0msec	01
13					
14	7~6				
	5~0	L Delay Time [msec]	00~03520	0.0~1360.0msec	00
15					

100: LCR BPM Long Dly

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		Feedback (C Delay)	9C~64	-100~+100	12
1	2	(Reserved)	00~01	0~1(*6)	01
	1	Time Over? >	00~01	----~OVER!!	11
	0	R Delay Base Note: Times	00~0F	x1~x16	09
2	7~5				
	4~1	C Delay Base Note: Times	00~0F	x1~x16	06
	0	R Delay Base Note	00~07	16/8T/8/4T/4/2T/2/1	08
3	7~6				
	5~3	C Delay Base Note	00~07	16/8T/8/4T/4/2T/2/1	05
	2~0	L Delay Base Note	00~07	16/8T/8/4T/4/2T/2/1	02
4		Feedback: Amt	9C~64	-100~+100	14
5		BPM	27~F0	MIDI~240	00
6	7~4	L Delay Base Note: Times	00~0F	x1~x16	03
	3~0	C Delay Level	00~32	0~50	07
7	7~6				
	5~0	L Delay Level	00~32	0~50	04
8		Input Level Dmod [%]	9C~64	-100~+100	18
9	7~2	Spread	00~32	0~50	19
	1~0	High Damp [%]	00~64	0~100%	15
10	7~3				
	2~0	Feedback: Src	00~1F	Off~Tempo(*1)	13
11	7~6				
	5~0	R Delay Level	00~32	0~50	10
12		Wet/Dry: Amt	9C~64	-100~+100	22
13	7~3	Wet/Dry: Src	00~1F	Off~Tempo(*1)	21
	2~0	Wet/Dry	00~64	Dry~Wet	20
14	7~4				
	3~0	Input Level Src	00~1F	Off~Tempo(*1)	17
15	7				
	6~0	Low Damp [%]	00~64	0~100%	16

101: St. BPM Long Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		L Feedback	9C~64	-100~+100	13
1		R Feedback	9C~64	-100~+100	14
2		L Feedback: Amt	9C~64	-100~+100	16
3		R Feedback: Amt	9C~64	-100~+100	17
4		BPM	27~F0	MIDI~240	00
5	7	Time Over? L >	00~01	----~OVER!!	05
	6~3	L Delay Base Note: Times	00~0F	x1~x16	03
	2~0	L Delay Base Note	00~07	16/8T/8/4T/4/2T/2/1	02
6	7	Time Over? R >	00~01	----~OVER!!	09
	6~3	R Delay Base Note: Times	00~0F	x1~x16	07
	2~0	R Delay Base Note	00~07	16/8T/8/4T/4/2T/2/1	06
7		Input Level Dmod [%]	9C~64	-100~+100	21
8		Wet/Dry: Amt	9C~64	-100~+100	12
9	7	(Reserved)	00~01	0~1(*6)	01
	6~0	Wet/Dry	00~64	Dry~Wet	10
10		L Delay: Adjust [%]	06~FA	-2.5~2.5%	04
11	7				
	6~0	High Damp [%]	00~64	0~100%	18
12		R Delay: Adjust [%]	06~FA	-2.5~2.5%	08
13	7				
	6~0	Low Damp [%]	00~64	0~100%	19
14	6~2	Wet/Dry: Src	00~1F	Off~Tempo(*1)	11
	1~0	Input Level Src	00~1F	Off~Tempo(*1)	20
15	7~5				
	4~0	Feedback: Src	00~1F	Off~Tempo(*1)	15

102: Hold Delay

OFS	bit	parameter	DATA(hex)	Value	SUB ID
0		REC Control Src	00~1F	Off~Tempo(*1)	00
1		RST Control Src	00~1F	Off~Tempo(*1)	02
2		Pan	9C~64	L100~R100	04
3		Pan: Src	00~1F	Off~Tempo(*1)	05
4		Pan: Amt	9C~64	-100~+100	06

5		Wet/Dry	00~64	Dry~Wet	07
6		Wet/Dry: Src	00~1F	Off~Tempo(*1)	08
7		Wet/Dry: Amt	9C~64	-100~+100	09
8	5	Manual RST Control	00~01	Off~RESET	03
	4	Manual REC Control	00~01	REC Off~REC On	01
	3~0	Loop Time [msec]	00~0A8C	Auto~2700msec	10
9					

Dynamic Modulation Source List(*1)

ID	Modulation Source
00	Off
01	Gate1
02	Gate1 + Dmpr (Gate1 + Damper)
03	Gate2
04	Gate2 + Dmpr (Gate2 + Damper)
05	Note Number
06	Velocity
07	After Touch
08	JS X (Joy Stick X)
09	JS+Y: CC#01 (Joy Stick +Y: CC#01)
10	JS-Y: CC#02 (Joy Stick -Y: CC#02)
11	Pedal CC#04 (Foot Pedal: CC#04)
12	FXCtrl1: #12 (FX Control1: CC#12)
13	FXCtrl2: #13 (FX Control2: CC#13)
14	Ribbon: # 16 (Ribbon: CC#16)
15	Slider: #18 (Value Slider: CC#18)
16	KnobM1: #17 (Knob Mod1: CC#17)
17	KnobM2: #19 (Knob Mod2: CC#19)
18	KnobM3: #20 (Knob Mod3: CC#20)
19	KnobM4: #21 (Knob Mod4: CC#21)
20	KnobM1[+]: #17 (Knob Mod1: CC#17[+])
21	KnobM2[+]: #19 (Knob Mod2: CC#19[+])
22	KnobM3[+]: #20 (Knob Mod3: CC#20[+])
23	KnobM4[+]: #21 (Knob Mod4: CC#21[+])
24	Damper: #64 (Damper: CC#64)
25	Prta.SW: #65 (Portamento Switch: CC#65)
26	Sostenu: #66 (Sostenuto: CC#66)
27	SW 1: CC#80 (SW1 Mod.: CC#80)
28	SW 2: CC#81 (SW2 Mod.: CC#81)
29	Foot SW: #82 (Foot Switch: CC#82)
30	MIDI: CC#83
31	Tempo

Dynamic Modulation Source List(*2)

ID	Modulation Source
00	Off
01	Gate1
02	Gate1 + Dmpr (Gate1 + Damper)
03	Gate2
04	Gate2 + Dmpr (Gate2 + Damper)

The value "Reserved" is equal to 1 when the condition below is satisfied.

(*3)Sweep Mode = 2("LFO"), BPM/MIDI Sync = 1("On"), BPM = 39("MIDI")

(*4)BPM/MIDI Sync = 1("On"), BPM = 39("MIDI")

(*5)Sweep Mode = 1("LFO"), BPM/MIDI Sync = 1("On"), BPM = 39("MIDI")

(*6)BPM = 39("MIDI")

-Revision History-

1.0	Oct. 2.'99	Initial Release.
1.1	Jun.28.'01	Modify the value of the waveform(Fx.16,17,21,33 and 60)
		Modify the data of the "Pan Depth"(Fx.30)
		Modify the value of the "Vocoder/Carrier"(Fx.93)
		Modify the value of the "Stereo/Cross"(Fx.44 and 99)